

## Refine Search

### Search Results -

| Terms                               | Documents |
|-------------------------------------|-----------|
| L2 and (560/\$ or 528/\$ or 428/\$) | 30        |

**Database:** US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:** L3

### Search History

DATE: Tuesday, December 19, 2006    [Purge Queries](#)    [Printable Copy](#)    [Create Case](#)

| <u>Set Name</u>   | <u>Query</u>                         | <u>Hit Count</u> | <u>Set Name</u> |
|---|--------------------------------------|------------------|-----------------|
| side by side  |                                      |                  | result set      |
| DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ |                                      |                  |                 |
| <u>L3</u>   | L2 and (560/\$ or 528/\$ or 428/\$)  | 30               | <u>L3</u>       |
| <u>L2</u>   | L1 and (acryloyl\$7 or cinnamoyl\$7) | 45               | <u>L2</u>       |
| <u>L1</u>   | mesogen and amino and polymerizable  | 140              | <u>L1</u>       |

END OF SEARCH HISTORY

## Hit List

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### Search Results - Record(s) 1 through 10 of 30 returned.

1. Document ID: US 20060188712 A1

L3: Entry 1 of 30

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060188712

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060188712 A1

TITLE: Adhesive composition, adhesive optical film and image display device

PUBLICATION-DATE: August 24, 2006

#### INVENTOR-INFORMATION:

| NAME                 | CITY  | STATE | COUNTRY |
|----------------------|-------|-------|---------|
| Okada; Kenichi       | Osaka |       | JP      |
| Takahashi; Toshitaka | Osaka |       | JP      |
| Kanamaru; Mika       | Osaka |       | JP      |
| Umeda; Michio        | Osaka |       | JP      |

US-CL-CURRENT: 428/354; 428/355R, 428/522, 526/277

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

2. Document ID: US 20060083867 A1

L3: Entry 2 of 30

File: PGPB

Apr 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060083867

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060083867 A1

TITLE: Retarder and circular polarizer

PUBLICATION-DATE: April 20, 2006

#### INVENTOR-INFORMATION:

| NAME              | CITY                          | STATE | COUNTRY |
|-------------------|-------------------------------|-------|---------|
| Ito; Tadashi      | Minami-ashigara-shi, Kanagawa |       | JP      |
| Takeuchi; Hiroshi | Minami-ashigara-shi, Kanagawa |       | JP      |

US-CL-CURRENT: 428/1.3; 349/117

|                      |                       |                          |                       |                        |                                |                      |                           |                           |                             |                        |                      |                          |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|
| <a href="#">Full</a> | <a href="#">Title</a> | <a href="#">Citation</a> | <a href="#">Front</a> | <a href="#">Review</a> | <a href="#">Classification</a> | <a href="#">Date</a> | <a href="#">Reference</a> | <a href="#">Sequences</a> | <a href="#">Attachments</a> | <a href="#">Claims</a> | <a href="#">KUMC</a> | <a href="#">Drawn D.</a> |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|

 3. Document ID: US 20060051524 A1

L3: Entry 3 of 30

File: PGPB

Mar 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060051524

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060051524 A1

TITLE: Hybrid polymer materials for liquid crystal alignment layers

PUBLICATION-DATE: March 9, 2006

## INVENTOR-INFORMATION:

| NAME                 | CITY       | STATE | COUNTRY |
|----------------------|------------|-------|---------|
| Gibbons; Wayne M.    | Bear       | DE    | US      |
| Reppy; Michael G. P. | Wilmington | DE    | US      |
| Rose; Patricia A.    | Wilmington | DE    | US      |
| Zheng; Hanxing       | Wilmington | DE    | US      |

US-CL-CURRENT: 428/1.2; 349/123, 428/1.26

|                      |                       |                          |                       |                        |                                |                      |                           |                           |                             |                        |                      |                          |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|
| <a href="#">Full</a> | <a href="#">Title</a> | <a href="#">Citation</a> | <a href="#">Front</a> | <a href="#">Review</a> | <a href="#">Classification</a> | <a href="#">Date</a> | <a href="#">Reference</a> | <a href="#">Sequences</a> | <a href="#">Attachments</a> | <a href="#">Claims</a> | <a href="#">KUMC</a> | <a href="#">Drawn D.</a> |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|

 4. Document ID: US 20050197450 A1

L3: Entry 4 of 30

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050197450

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050197450 A1

TITLE: Pressure-sensitive adhesive composition, pressure-sensitive adhesive sheets and surface protecting film

PUBLICATION-DATE: September 8, 2005

## INVENTOR-INFORMATION:

| NAME               | CITY        | STATE | COUNTRY |
|--------------------|-------------|-------|---------|
| Amano, Tatsumi     | Ibaraki-shi |       | JP      |
| Ando, Masahiko     | Ibaraki-shi |       | JP      |
| Okumura, Kazuhito  | Ibaraki-shi |       | JP      |
| Kobayashi, Natsuki | Ibaraki-shi |       | JP      |

US-CL-CURRENT: 525/30; 428/343, 428/355R

|                      |                       |                          |                       |                        |                                |                      |                           |                           |                             |                        |                      |                          |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|
| <a href="#">Full</a> | <a href="#">Title</a> | <a href="#">Citation</a> | <a href="#">Front</a> | <a href="#">Review</a> | <a href="#">Classification</a> | <a href="#">Date</a> | <a href="#">Reference</a> | <a href="#">Sequences</a> | <a href="#">Attachments</a> | <a href="#">Claims</a> | <a href="#">KUMC</a> | <a href="#">Drawn D.</a> |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|----------------------|--------------------------|

5. Document ID: US 20050142302 A1

L3: Entry 5 of 30

File: PGPB

Jun 30, 2005

PGPUB-DOCUMENT-NUMBER: 20050142302

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050142302 A1

TITLE: Alignment-layer-attached film for optical element use

PUBLICATION-DATE: June 30, 2005

## INVENTOR-INFORMATION:

| NAME           | CITY     | STATE | COUNTRY |
|----------------|----------|-------|---------|
| Nakamura, Runa | Tokyo-to |       | JP      |

US-CL-CURRENT: 428/1.2

|      |       |          |       |        |                |      |           |           |             |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

 6. Document ID: US 20050045854 A1

L3: Entry 6 of 30

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050045854

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050045854 A1

TITLE: Cholesteric liquid crystal copolymers and additives

PUBLICATION-DATE: March 3, 2005

## INVENTOR-INFORMATION:

| NAME                  | CITY       | STATE | COUNTRY |
|-----------------------|------------|-------|---------|
| Radcliffe, Marc D.    | Newport    | MN    | US      |
| Pokorny, Richard J.   | Maplewood  | MN    | US      |
| Spawn, Terence D.     | Stillwater | MN    | US      |
| Solomonson, Steven D. | Shoreview  | MN    | US      |

US-CL-CURRENT: 252/299.7; 252/299.65, 252/299.67, 428/1.1

|      |       |          |       |        |                |      |           |           |             |        |      |         |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawn D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

 7. Document ID: US 20050003107 A1

L3: Entry 7 of 30

File: PGPB

Jan 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050003107

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050003107 A1

TITLE: Alignment facilities for optical dyes

PUBLICATION-DATE: January 6, 2005

INVENTOR-INFORMATION:

| NAME             | CITY        | STATE | COUNTRY |
|------------------|-------------|-------|---------|
| Kumar, Anil      | Pittsburgh  | PA    | US      |
| Foller, Peter C. | Murrysville | PA    | US      |
| Shao, Jiping     | Monroeville | PA    | US      |

US-CL-CURRENT: 428/1.1; 427/162, 427/421.1, 427/430.1, 428/1.6, 428/336

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8. Document ID: US 20040219305 A1

L3: Entry 8 of 30

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040219305 A1

TITLE: Retardation film and elliptically polarizing film

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

| NAME                | CITY     | STATE | COUNTRY |
|---------------------|----------|-------|---------|
| Nishikawa, Hideyuki | Kanagawa |       | JP      |
| Ohkawa, Atsuhiro    | Kanagawa |       | JP      |

US-CL-CURRENT: 428/1.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn De](#)

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9. Document ID: US 20040199004 A1

L3: Entry 9 of 30

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199004

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199004 A1

TITLE: Novel mesogens

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

| NAME                    | CITY        | STATE | COUNTRY |
|-------------------------|-------------|-------|---------|
| Wellinghoff, Stephen T. | San Antonio | TX    | US      |

Hanson, Douglas P.

San Antonio

TX

US

US-CL-CURRENT: 560/19; 560/66[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) D 10: Document ID: US 20040144954 A1

L3: Entry 10 of 30

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040144954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040144954 A1

TITLE: Selective ether cleavage synthesis of liquid crystals

PUBLICATION-DATE: July 29, 2004

## INVENTOR-INFORMATION:

| NAME                    | CITY        | STATE | COUNTRY |
|-------------------------|-------------|-------|---------|
| Wellinghoff, Stephen T. | San Antonio | TX    | US      |
| Hanson, Douglas P.      | San Antonio | TX    | US      |

US-CL-CURRENT: 252/299.67; 252/299.01, 560/76, 560/8[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) D[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

|                                      |           |
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| Terms                                | Documents |
| L2 and (560/\$ or .528/\$ or 428/\$) | 30        |

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11. Document ID: US 20040142116 A1

L3: Entry 11 of 30

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040142116 A1

TITLE: Compound, retardation plate and method for forming optically anisotropic layer

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

| NAME                | CITY     | STATE | COUNTRY |
|---------------------|----------|-------|---------|
| Nishikawa, Hideyuki | Kanagawa |       | JP      |
| Ohkawa, Atsuhiro    | Kanagawa |       | JP      |

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.62, 252/299.63, 252/299.67

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

12. Document ID: US 20030055280 A1

L3: Entry 12 of 30

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030055280 A1

TITLE: Methods for synthesis of liquid crystals

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

| NAME                    | CITY        | STATE | COUNTRY |
|-------------------------|-------------|-------|---------|
| Wellinghoff, Stephen T. | San Antonio | TX    | US      |
| Hanson, Douglas P.      | San Antonio | TX    | US      |

US-CL-CURRENT: 560/76; 560/8

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

13. Document ID: US 20020177727 A1

L3: Entry 13 of 30

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177727

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177727 A1

TITLE: Novel mesogens

PUBLICATION-DATE: November 28, 2002

## INVENTOR-INFORMATION:

| NAME                    | CITY        | STATE | COUNTRY |
|-------------------------|-------------|-------|---------|
| Wellinghoff, Stephen T. | San Antonio | TX    | US      |
| Hanson, Douglas P.      | San Antonio | CA    | US      |

US-CL-CURRENT: 560/86; 428/1.1, 528/308

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 14. Document ID: US 7147800 B2

L3: Entry 14 of 30

File: USPT

Dec 12, 2006

US-PAT-NO: 7147800

DOCUMENT-IDENTIFIER: US 7147800 B2

TITLE: Selective ether cleavage synthesis of liquid crystals

## PRIOR-PUBLICATION:

DOC-ID DATE

US 20040144954 A1 July 29, 2004

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Drawn De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 15. Document ID: US 7108801 B2

L3: Entry 15 of 30

File: USPT

Sep 19, 2006

US-PAT-NO: 7108801

DOCUMENT-IDENTIFIER: US 7108801 B2

TITLE: Methods and blends for controlling rheology and transition temperature of liquid crystals

## PRIOR-PUBLICATION:

DOC-ID DATE

US 20030036609 A1

February 20, 2003

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 16. Document ID: US 7098359 B2

L3: Entry 16 of 30

File: USPT

Aug 29, 2006

US-PAT-NO: 7098359

DOCUMENT-IDENTIFIER: US 7098359 B2

TITLE: Mesogens and methods for their synthesis and use

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030168633 A1

September 11, 2003

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 17. Document ID: US 7094360 B2

L3: Entry 17 of 30

File: USPT

Aug 22, 2006

US-PAT-NO: 7094360

DOCUMENT-IDENTIFIER: US 7094360 B2

TITLE: Resin blends and methods for making same

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189516 A1

September 1, 2005

|      |       |          |       |        |                |      |           |           |             |        |      |          |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Drawn D. |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

 18. Document ID: US 7041234 B2

L3: Entry 18 of 30

File: USPT

May 9, 2006

US-PAT-NO: 7041234

DOCUMENT-IDENTIFIER: US 7041234 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Methods for synthesis of liquid crystals

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030055280 A1

March 20, 2003

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. D.](#) 19. Document ID: US 6749771 B1

L3: Entry 19 of 30

File: USPT

Jun 15, 2004

US-PAT-NO: 6749771

DOCUMENT-IDENTIFIER: US 6749771 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Compounds as components in polymerizable liquid crystalline mixtures and liquid crystal polymer networks comprising them

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. D.](#) 20. Document ID: US 6677273 B2

L3: Entry 20 of 30

File: USPT

Jan 13, 2004

US-PAT-NO: 6677273

DOCUMENT-IDENTIFIER: US 6677273 B2

TITLE: Erasable recording material capable of inputting additional information written thereon and information recording system and information recording method using the recording material

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. D.](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L2 and (560/\$ or 528/\$ or 428/\$)

30

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21. Document ID: US 6440328 B1

L3: Entry 21 of 30

File: USPT

Aug 27, 2002

US-PAT-NO: 6440328

DOCUMENT-IDENTIFIER: US 6440328 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Preparation of acrylated liquid-crystalline compounds

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

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22. Document ID: US 6432518 B1

L3: Entry 22 of 30

File: USPT

Aug 13, 2002

US-PAT-NO: 6432518

DOCUMENT-IDENTIFIER: US 6432518 B1

TITLE: Erasable recording material capable of inputting additional information written thereon and information recording system and information recording method using the recording material.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

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23. Document ID: US 6136225 A

L3: Entry 23 of 30

File: USPT

Oct 24, 2000

US-PAT-NO: 6136225

DOCUMENT-IDENTIFIER: US 6136225 A

TITLE: Polymerizable liquid-crystalline compounds

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

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24. Document ID: US 5843333 A

L3: Entry 24 of 30

File: USPT

Dec 1, 1998

US-PAT-NO: 5843333

DOCUMENT-IDENTIFIER: US 5843333 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Metallo organo liquid crystals in a polymer matrix

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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25. Document ID: US 5342904 A

L3: Entry 25 of 30

File: USPT

Aug 30, 1994

US-PAT-NO: 5342904

DOCUMENT-IDENTIFIER: US 5342904 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Polymer modified adducts of epoxy resins and active hydrogen containing compounds containing mesogenic moieties

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26. Document ID: US 5256784 A

L3: Entry 26 of 30

File: USPT

Oct 26, 1993

US-PAT-NO: 5256784

DOCUMENT-IDENTIFIER: US 5256784 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Nonlineaphores and polymers incorporating such nonlineaphores

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D.](#)

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27. Document ID: US 5235008 A

L3: Entry 27 of 30

File: USPT

Aug 10, 1993

US-PAT-NO: 5235008

DOCUMENT-IDENTIFIER: US 5235008 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Polymer modified adducts of epoxy resins and active hydrogen containing compounds containing mesogenic moieties

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28. Document ID: US 5232801 A

L3: Entry 28 of 30

File: USPT

Aug 3, 1993

US-PAT-NO: 5232801

DOCUMENT-IDENTIFIER: US 5232801 A

TITLE: Hole-transport liquid crystalline polymeric compounds, electrophotographic elements comprising same, and electrophotographic process

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KUMC](#) [Drawn D.](#)

29. Document ID: US 5087672 A

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File: USPT

Feb 11, 1992

US-PAT-NO: 5087672

DOCUMENT-IDENTIFIER: US 5087672 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Fluorine-containing acrylate and methacrylate side-chain liquid crystal monomers and polymers

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30. Document ID: US 5078910 A

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File: USPT

Jan 7, 1992

US-PAT-NO: 5078910

DOCUMENT-IDENTIFIER: US 5078910 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Polimerization of liquid crystalline monomers

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NEWS 28 DEC 18 CA/Cplus patent kind codes updated  
NEWS 29 DEC 18 MARPAT to CA/Cplus accession number crossover limit increased to 50,000  
NEWS 30 DEC 18 MEDLINE updated in preparation for 2007 reload  
  
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.  
  
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NEWS LOGIN Welcome Banner and News Items  
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                                ENTRY      SESSION
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FILE LAST UPDATED: 18 Dec 2006 (20061218/ED)

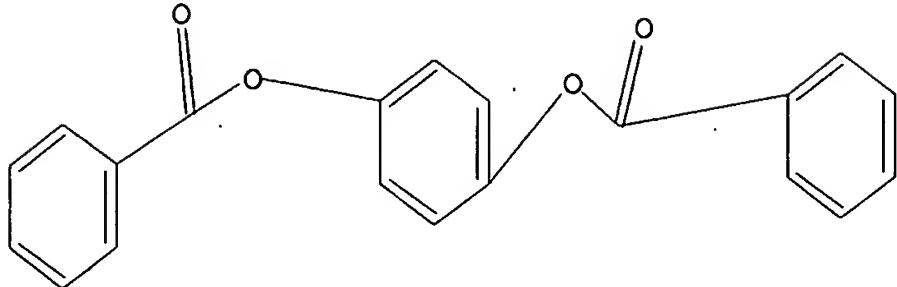
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L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full  
REGISTRY INITIATED  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:40:34 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 50595 TO ITERATE

100.0% PROCESSED 50595 ITERATIONS 5797 ANSWERS  
SEARCH TIME: 00.00.01

L2 5797 SEA SSS FUL L1

L3 2613 L2

=> s l3 and polymerizable  
27928 POLYMERIZABLE  
L4 223 L3 AND POLYMERIZABLE

=> s l3 and (hydroxyl or amino or sulfhydryl)

118286 HYDROXYL

1097687 AMINO

23665 SULFHYDRYL

L5 78 L3 AND (HYDROXYL OR AMINO OR SULFHYDRYL)

=> S L4 AND L5

L6 6 L4 AND L5

=> s l3 and spacer

49007 SPACER

L7 120 L3 AND SPACER

=> s l3 and mesogen

2283 MESOGEN

L8 130 L3 AND MESOGEN

=> s 14 or 15 or 17 or 18

L9 482 L4 OR L5 OR L7 OR L8

=> s 19 and py<2001  
20884436 PY<2001

L10 239 L9 AND PY<2001

=> s 110 and ( acrylo? or cinnamoyl?)  
114136 ACRYLO?  
6098 CINNAMOYL?

L11 25 L10 AND ( ACRYLO? OR CINNAMOYL?)

=> d 1-25 ibib abs hitstr

L11 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:756661 CAPLUS

DOCUMENT NUMBER: 133:342569

TITLE: Preparation of liquid crystal compounds

INVENTOR(S): Cherkaoui, Zoubair Mohammed; Benecke, Carsten;  
Schmitt, Klaus

PATENT ASSIGNEE(S): Rolic A.-G., Switz.

SOURCE: PCT Int. Appl., 48 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|---|------|----------|-----------------|--------------|
| WO 2000063154   | A1   | 20001026 | WO 2000-IB448   | 20000411 <-- |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,<br>CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,<br>ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,<br>LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,<br>SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW<br>RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,<br>DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,<br>CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |      |          |                 |              |
| EP 1187802  | A1   | 20020320 | EP 2000-914329  | 20000411     |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO  |      |          |                 |              |
| JP 2002542219   | T    | 20021210 | JP 2000-612251  | 20000411     |
| EP 1295863  | A1   | 20030326 | EP 2001-810929  | 20010924     |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  |      |          |                 |              |
| US 6746729  | B1   | 20040608 | US 2001-959013  | 20011017     |
| WO 2003027056   | A1   | 20030403 | WO 2002-CH525   | 20020923     |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,<br>GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,<br>LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,<br>PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,<br>UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,<br>KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,<br>FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,<br>CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG |      |          |                 |              |
| EP 1432673  | A1   | 20040630 | EP 2002-760026  | 20020923     |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  |      |          |                 |              |
| CN 1556787  | A    | 20041222 | CN 2002-818661  | 20020923     |
| JP 2005502730   | T    | 20050127 | JP 2003-530647  | 20020923     |

|                        |    |          |                |            |
|------------------------|----|----------|----------------|------------|
| US 2005040364          | A1 | 20050224 | US 2004-490423 | 20041029   |
| PRIORITY APPLN. INFO.: |    |          | GB 1999-8934   | A 19990419 |
|                        |    |          | WO 2000-IB448  | W 20000411 |
|                        |    |          | EP 2001-810929 | A 20010924 |
|                        |    |          | WO 2002-CH525  | W 20020923 |

OTHER SOURCE(S): MARPAT 133:342569

AB The invention provides compds. of formula A1A3MG1B1A4MG2A2, wherein A1 to A4 are independently selected from H, Me and a hydrocarbon group containing from 2 to 80 carbon atoms in which one or more carbon atoms are optionally replaced by a heteroatom selected from the group consisting -O-, -S- and -N- with the proviso that no two heteroatoms are joined together and at least one of A1 to A4 includes a polymerizable group; B1 represents a hydrocarbon group containing from 4 to 80 carbon atoms, in which one or more carbon atoms are optionally replaced by a heteroatom selected from the group consisting -O-, -S- and -N- with the proviso that no two heteroatoms are joined together; MG1 and MG2 are the same or different and each independently represents an aromatic or non-aromatic carbocyclic or heterocyclic ring system containing from 1 to 80 carbon atoms, with the proviso that firstly at least one of MG1 and MG2 comprises at least two ring systems and secondly, when MG1 and MG2 are identical each of A1 and A2 or A3 and A4 are different. The invention also provides liquid crystalline mixts. and optical or electro-optical devices including compds. of formula (I).

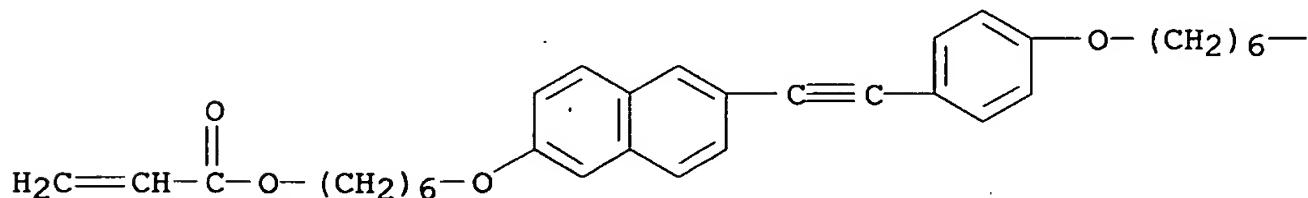
IT 304021-55-4P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of; as liquid crystal compds.)

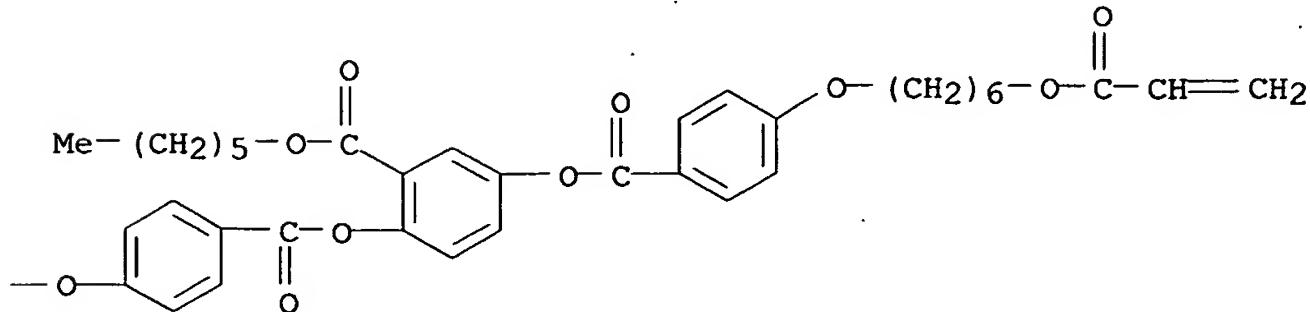
RN 304021-55-4 CAPLUS

CN Benzoic acid, 5-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-2-[[4-[[6-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-2-naphthalenyl]ethynyl]phenoxy]hexyl]oxy]benzoyl]oxy]-, hexyl ester (9CI)  
(CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2000:755292 CAPLUS  
DOCUMENT NUMBER: 133:323006  
TITLE: Thermostable, liquid-crystalline pigments, films,  
pearlescent coatings and polymerizable  
mixtures for their preparation  
INVENTOR(S): Kasch, Michael; Kupfer, Jurgen; Kreuzer,  
Franz-Heinrich  
PATENT ASSIGNEE(S): Consortium fuer Elektrochemische Industrie G.m.b.H.,  
Germany  
SOURCE: Eur. Pat. Appl., 12 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE         |
|--|------|----------|------------------|--------------|
| EP 1046692   | A1   | 20001025 | EP 2000-106099   | 20000330 <-- |
| EP 1046692   | B1   | 20020807 |                  |              |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO |      |          |                  |              |
| DE 19917067  | A1   | 20001019 | DE 1999-19917067 | 19990415 <-- |
| DE 19922158  | A1   | 20001116 | DE 1999-19922158 | 19990512 <-- |
| PRIORITY APPLN. INFO.:   |      |          | DE 1999-19917067 | A 19990415   |
|  |      |          | DE 1999-19922158 | A 19990512   |

AB Mixts. of polymerizable liquid-crystalline substances with chiral phase and ≥90% of the compds. having ≥2 polymerizable groups, so that the polymerizable group content in the mixts. is 3.2-15 mol/g are useful for manufacture of heat-resistant, liquid-crystalline pigments

for pearlescent coatings. A typical pigment was manufactured by photopolymn. of a mixture containing 23.93 g hydroquinone bis[4-(4-acryloyloxybutoxy)benzoate], 6.6 g 4-acryloyloxyphenyl 4-(4-acryloyloxybutoxy)benzoate, 2.81 g 2-[4-(4-acryloyloxybutoxy)benzoyl]-5-anisoylisosorbide, 10 mg Et3N, 0.09 g Ethanox 703, and 0.33 g Irgacure 819 as a 3-10-μm-thick layer on PET film, removal of the layer, and grinding.

IT 260544-92-1P 303009-54-3P 303009-55-4P  
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (pigment; thermostable, liquid-crystalline polymeric pigments for pearlescent coatings)

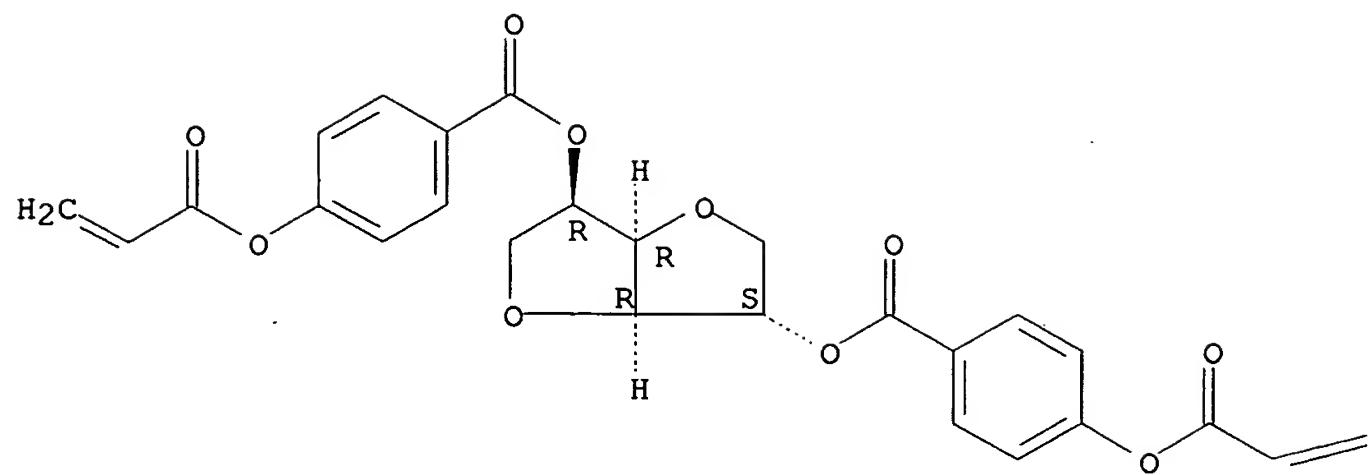
RN 260544-92-1 CAPLUS  
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

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CRN 256513-67-4  
CMF C26 H22 O10

Absolute stereochemistry.

PAGE 1-A



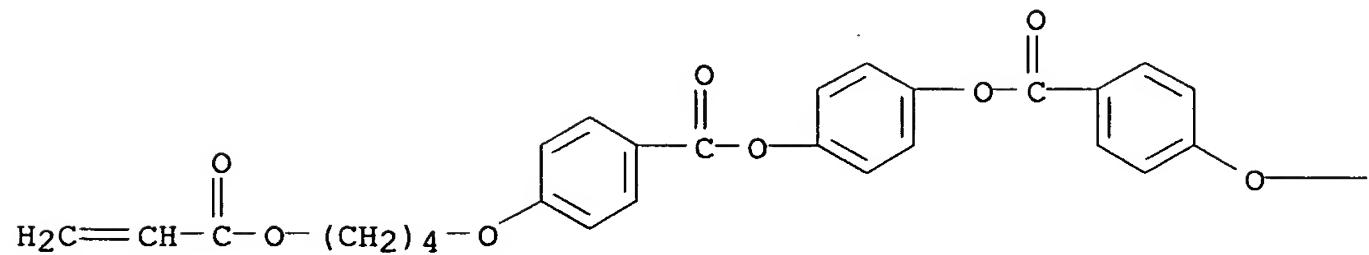
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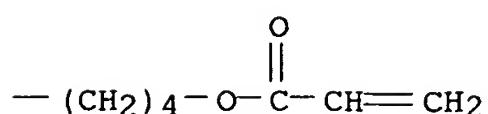
CM 2

CRN 132694-65-6  
CMF C34 H34 O10

PAGE 1-A



PAGE 1-B

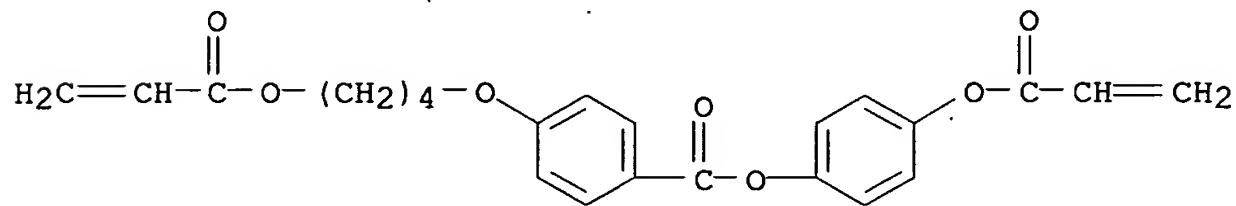


RN 303009-54-3 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, 2-(4-methoxybenzoate) 5-[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 4-[(1-oxo-2-propenyl)oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate and 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

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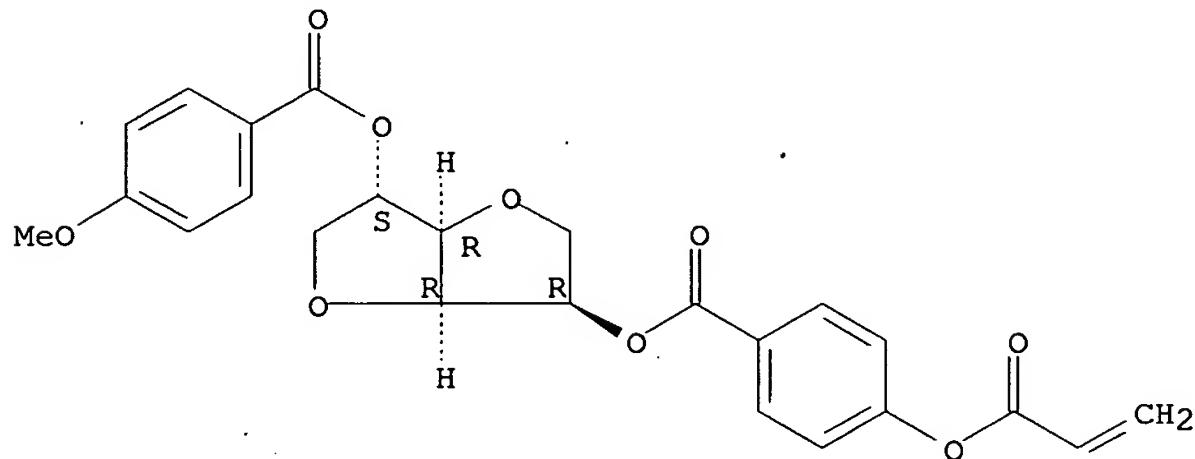
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CMF C23 H22 O7



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CRN 228863-29-4  
CMF C24 H22 O9

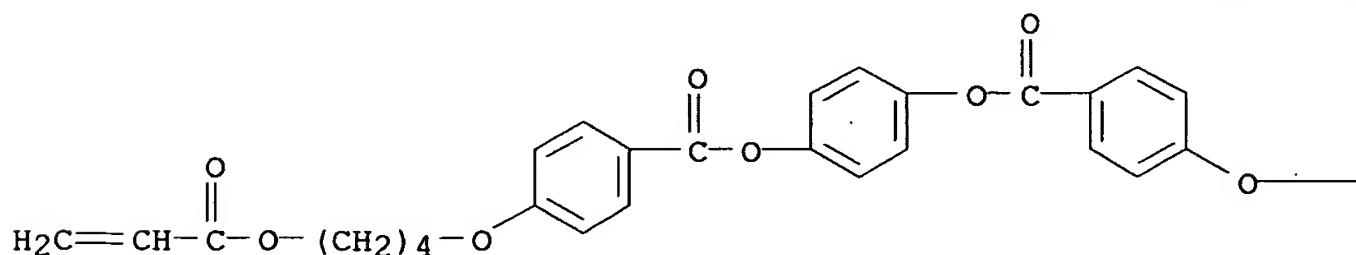
Absolute stereochemistry.

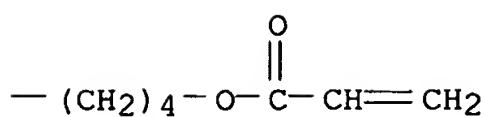


CM 3

CRN 132694-65-6  
CMF C34 H34 O10

PAGE 1-A





RN 303009-55-4 CAPLUS

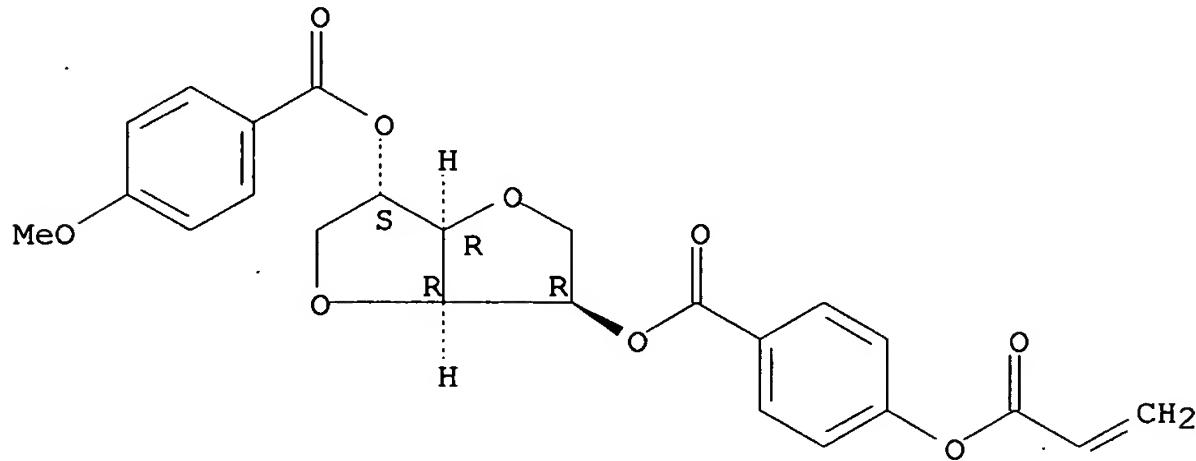
CN D-Glucitol, 1,4:3,6-dianhydro-, 2-(4-methoxybenzoate) 5-[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

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CRN 228863-29-4

CMF C24 H22 O9

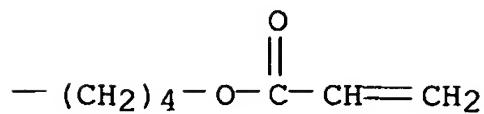
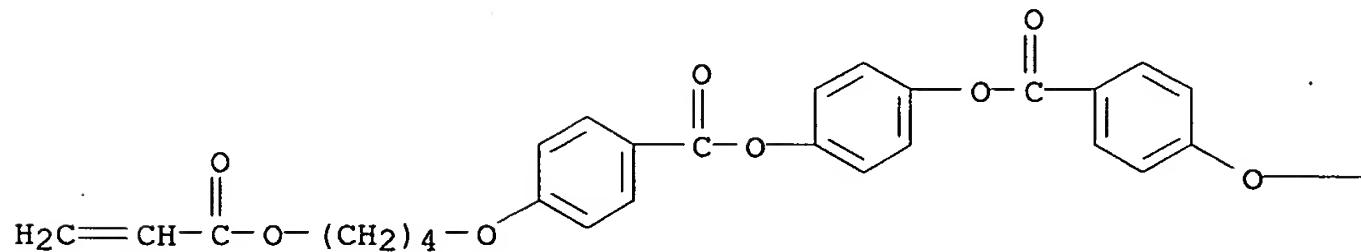
Absolute stereochemistry.



CM 2

CRN 132694-65-6

CMF C34 H34 O10



REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:738771 CAPLUS  
 DOCUMENT NUMBER: 133:310929  
 TITLE: Thermally stable pigments, films and effect coatings,  
 as well as mixtures for their production  
 INVENTOR(S): Kasch, Michael; Kuepfer, Juergen; Kreuzer,  
 Franz-Heinrich  
 PATENT ASSIGNEE(S): Consortium fuer Elektrochemische Industrie G.m.b.H.,  
 Germany  
 SOURCE: Ger. Offen., 9 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE         |
|--|------|----------|------------------|--------------|
| DE 19917067  | A1   | 20001019 | DE 1999-19917067 | 19990415 <-- |
| EP 1046692   | A1   | 20001025 | EP 2000-106099   | 20000330 <-- |
| EP 1046692   | B1   | 20020807 |                  |              |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO |      |          |                  |              |
| US 6423246   | B1   | 20020723 | US 2000-546040   | 20000410     |
| JP 2000336120  | A    | 20001205 | JP 2000-111180   | 20000412 <-- |
| JP 3581634   | B2   | 20041027 |                  |              |
| CA 2305108   | A1   | 20001015 | CA 2000-2305108  | 20000413 <-- |
| CA 2305108   | C    | 20050208 |                  |              |
| JP 2002121408  | A    | 20020423 | JP 2000-302710   | 20001002     |
| PRIORITY APPLN. INFO.:   |      |          | DE 1999-19917067 | A 19990415   |
|  |      |          | DE 1999-19922158 | A 19990512   |

AB A mixture of crosslinkable liquid-crystalline substances characterized by a chiral

phase (LC mixture), in which ≥90% of the polymerizable groups are in mols. with ≥2 polymerizable groups (crosslinking mols.), contains 3.2-15 mmol polymerizable groups/g LC mixture Spreading the mixture on a surface and crosslinking in the liquid-crystalline state produces a coating film, which can be comminuted

to

form pigment particles. Thus, a mixture of hydroquinone bis[4-(4-acryloyloxybutoxy)benzoate] 23.93, 4-(acryloyloxy)phenyl 4-(4-acryloyloxybutoxy)benzoate (preparation given) 6.6, and 2-[4-(4-acryloyloxybutoxy)benzoyl]-5-anisoylisosorbide (preparation given) 2.81 g containing 0.09 g Ethanox 703, 10 mg Et3N and 0.33 g Irgacure 819 was dissolved at 25° in toluene, filtered and evaporated to give a green liquid-crystalline mixture with viscosity (90°) 200 mPa·s and cholesteric-isotropic transition at 125°, containing 3.50 mmol polymerizable groups/g. The mixture was spread on a PET film at 3-10 µm thickness, photocured, the film was separated and ground to give pigment particle of average size apprx.30 µm, which were incorporated in an acrylic-melamine automotive clear lacquer.

IT

302580-47-8P 302580-50-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of thermally stable pigments from mixts. of liquid-crystalline substances)

RN

302580-47-8 CAPLUS

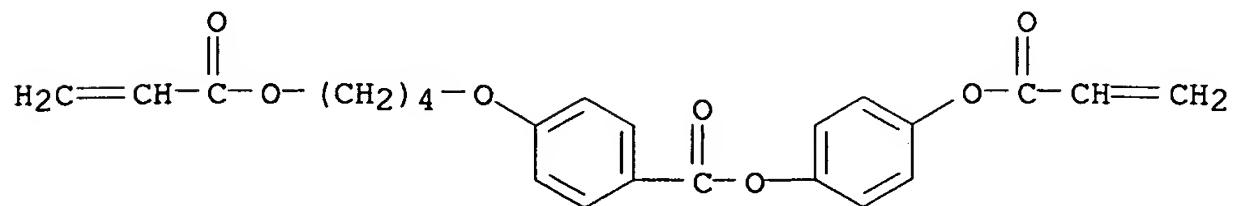
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D-Glucitol, 1,4:3,6-dianhydro-, 5-(4-methoxybenzoate) 2-[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], polymer with 4-[(1-oxo-2-

propenyl)oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate and  
1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA  
INDEX NAME)

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CRN 302580-43-4  
CMF C23 H22 O7

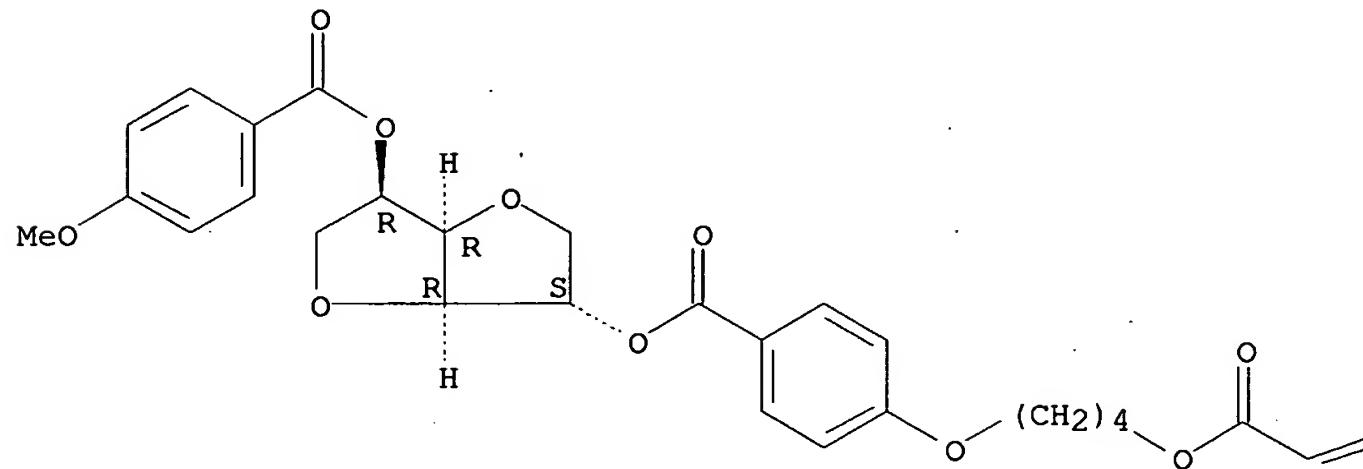


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CRN 287115-12-2  
CMF C28 H30 O10

Absolute stereochemistry.

PAGE 1-A



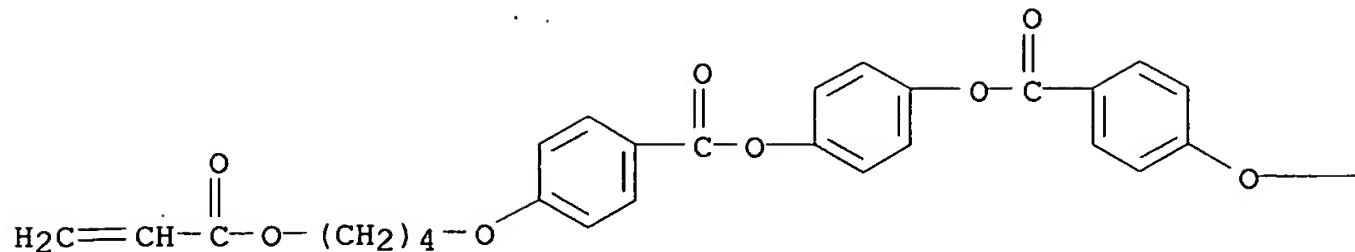
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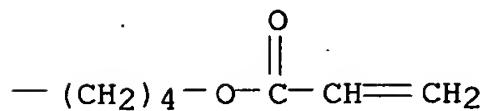
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CRN 132694-65-6  
CMF C34 H34 O10

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PAGE 1-B



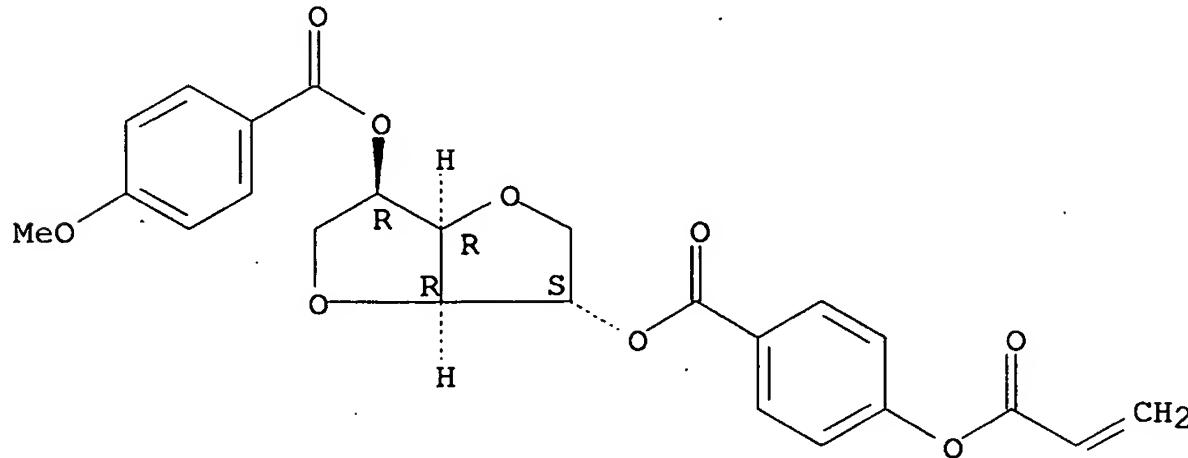
RN 302580-50-3 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, 5-(4-methoxybenzoate) 2-[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

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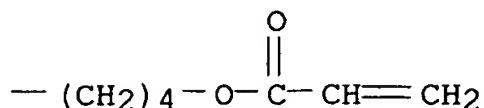
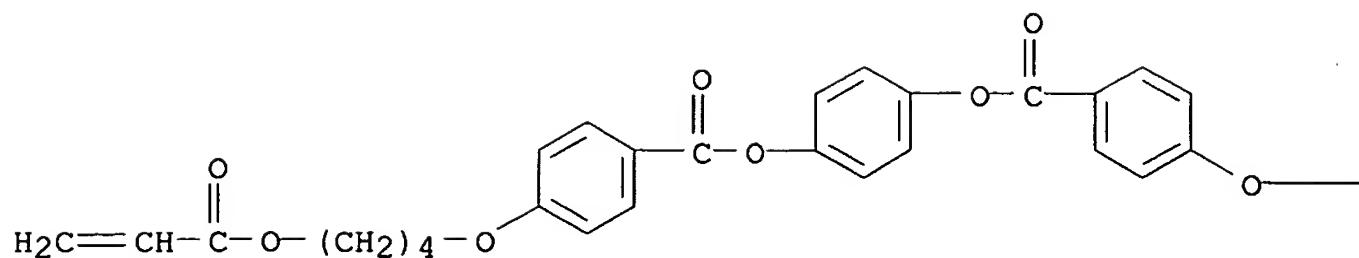
CRN 228863-28-3  
CMF C24 H22 O9

Absolute stereochemistry.



CM 2

CRN 132694-65-6  
CMF C34 H34 O10



L11 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:733066 CAPLUS

DOCUMENT NUMBER: 133:297097

TITLE: Optically active polymerizable compounds,  
liquid crystal compositions containing them, and  
optically anisotropic polymersINVENTOR(S): Shibata, Toshihiro; Irisawa, Masatomu; Otsuka,  
Takahiro

PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE         |
|---------------|------|----------|-----------------|--------------|
| JP 2000290315 | A    | 20001017 | JP 1999-101679  | 19990408 <-- |
|               |      |          | JP 1999-101679  | 19990408     |

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 133:297097

AB The compds. comprise  $\text{XCHMeCH}_2\text{CHMeO(p-C}_6\text{H}_4\text{)}_m\text{CO}_2\text{(p-C}_6\text{H}_4\text{)}_n\text{Z1[ABqZ2]pRY}$  (I; A, B = p-C<sub>6</sub>H<sub>4</sub>, 1,4-C<sub>6</sub>H<sub>10</sub>; m, n = 1-2; p, q = 0-1; ≥1 of X and Y = alkenyl-containing group, others = halo, Z<sub>3</sub>R'; Y = H, halo, Z<sub>4</sub>R''; Z<sub>1</sub> = single bond, O<sub>2</sub>C; Z<sub>2</sub> = single bond, O; Z<sub>3</sub>, Z<sub>4</sub> = O, O<sub>2</sub>C; R = C<sub>1-8</sub> alkylene; R', R'' = C<sub>1-8</sub> alkenyl, C<sub>1-8</sub> alkyl). The polymers are useful for optical, display, and recording materials. Thus, 4-(1S, 3R)-3-hydroxy-1,3-dimethylpropyloxybenzoic acid acrylate was esterified with 4-(4-hydroxyphenyl)-1-propylcyclohexane to give I (A = 1,4-C<sub>6</sub>H<sub>10</sub>, m = n = p = 1, q = 0, X = CH<sub>2</sub>:CHCO<sub>2</sub>, Y = H, Z<sub>1</sub> = CO<sub>2</sub>, Z<sub>2</sub> = single bond, R = C<sub>3</sub>H<sub>6</sub>). A composition comprising I 50, 4-acryloyloxyphenyl 4-(2-acryloyloxyethyl)benzoate 25, and 4-(4-acryloyloxyphenylcarbonyloxy)-6-acryloyloxyhexylcarbonyloxybenzene 25 parts was photopolymerd. to give a liquid crystal polymer.

IT 300691-95-6P

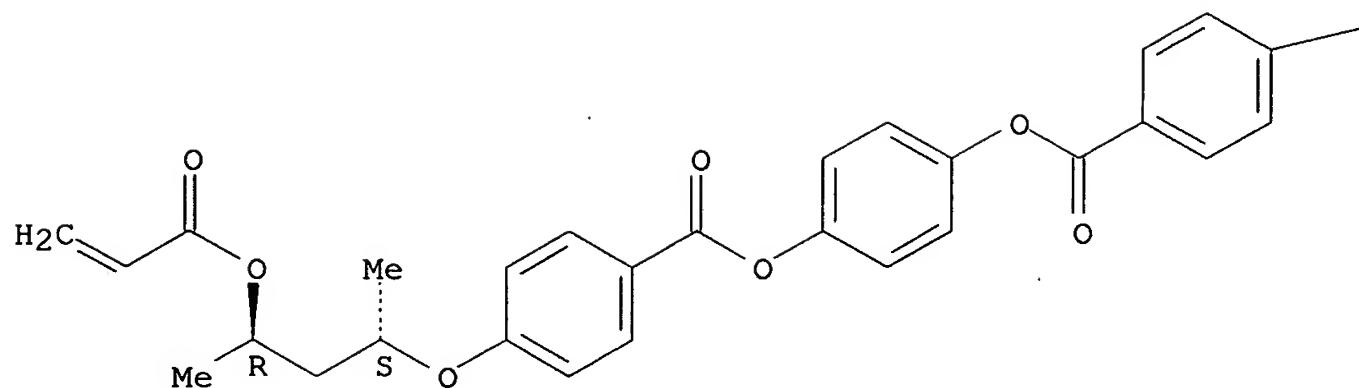
RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of optically active compds. for liquid crystal compns., and anisotropic polymers)

RN 300691-95-6 CAPLUS

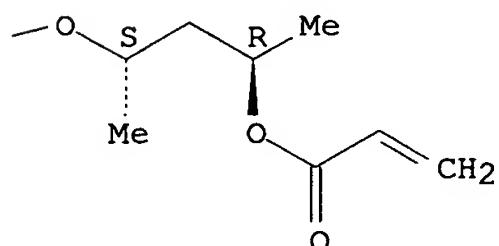
CN Benzoic acid, 4-[(1S,3R)-1-methyl-3-[(1-oxo-2-propenyl)oxy]butoxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

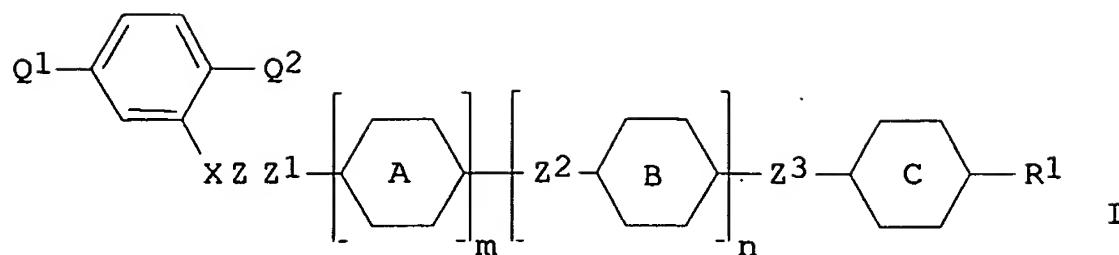


PAGE 1-B



L11 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2000:666686 CAPLUS  
DOCUMENT NUMBER: 133:252854  
TITLE: Liquid crystal monomers and their use  
INVENTOR(S): Lukac, Teodor; Benecke, Carsten; Buchecker, Richard  
PATENT ASSIGNEE(S): Rolic A.-G., Switz.  
SOURCE: PCT Int. Appl., 40 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE              | APPLICATION NO. | DATE         |
|---|------|-------------------|-----------------|--------------|
| WO 2000055110   | A1   | 20000921          | WO 2000-IB158   | 20000215 <-- |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,<br>CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,<br>IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,<br>MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,<br>SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW<br>RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,<br>DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,<br>CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG |      |                   |                 |              |
| EP 1169293  | A1   | 20020109          | EP 2000-902824  | 20000215     |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO  |      |                   |                 |              |
| JP 2002539182   | T    | 20021119          | JP 2000-605541  | 20000215     |
| US 6733690  | B1   | 20040511          | US 2001-936725  | 20010917     |
| PRIORITY APPLN. INFO.:  |      |                   | GB 1999-6168    | A 19990317   |
|   |      |                   | WO 2000-IB158   | W 20000215   |
| OTHER SOURCE(S): GI   |      | MARPAT 133:252854 |                 |              |



AB The monomers have the formula I [Q1, Q2 = polymerizable mesogenic residue; R1 = CN, COR, CO2R, O2CR, CONRR', NR'COR, OCO2R, O2CNRR', NR'CO2R, F, Cl, CF3, OCF3, R, OR; R = H, achiral C1-18 alkyl, achiral C4-18  $\alpha$ -alkenyl ( $x \neq 1-2$ ); R' = H, achiral C1-6 alk(en)yl; X = CH<sub>2</sub>, O, CO, CO<sub>2</sub>, O<sub>2</sub>C, CONR', OCO<sub>2</sub>, O<sub>2</sub>CNR'; Z = (CH<sub>2</sub>)<sub>p</sub> ( $p = 1-18$ ) in which 1-2 nonadjacent CH<sub>2</sub> groups are optionally replaced by CH:CH or 1-2 of O, CO, CO<sub>2</sub>, O<sub>2</sub>C, CONR', OCO<sub>2</sub>, O<sub>2</sub>CNR', provided that Z does not contain 2 adjacent hetero atoms; Z1 = direct link, O, CO, CO<sub>2</sub>, O<sub>2</sub>C, CONR', NR'CO, OCO<sub>2</sub>, O<sub>2</sub>CNR', NR'CO<sub>2</sub>; Z2, Z3 = direct link, CO<sub>2</sub>, O<sub>2</sub>C, CH<sub>2</sub>O, OCH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, CH:CH, C.tplbond.C, (CH<sub>2</sub>)<sub>4</sub>, (CH<sub>2</sub>)<sub>3</sub>O; rings A and B represent an optionally substituted 6-membered carbocyclic or heterocyclic group or naphthalenediyl; ring C is an optionally substituted 5- or 6-membered carbocyclic or heterocyclic group or naphthalenediyl;  $\leq 1$  of rings A-C is naphthalenediyl; m, n = 0, 1; m + n = 1-2]. Their polymers are used in the manufacture of (electro)optical devices. Thus, 4'-octylbiphenyl-4-ol was etherified with 8-chlorooctanol, and the product was esterified with 2,5-(HO)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>CO<sub>2</sub>H; the resulting hydroquinone derivative was esterified with 2 mol 4-[6-(acryloyloxy)hexyloxy]benzoic acid to give a I with crystalline-nematic transition at 89.5° and nematic-isotropic transition at 103°.

IT 295783-12-9P 295783-13-0P  
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(preparation and polymerization of liquid crystalline monomers)

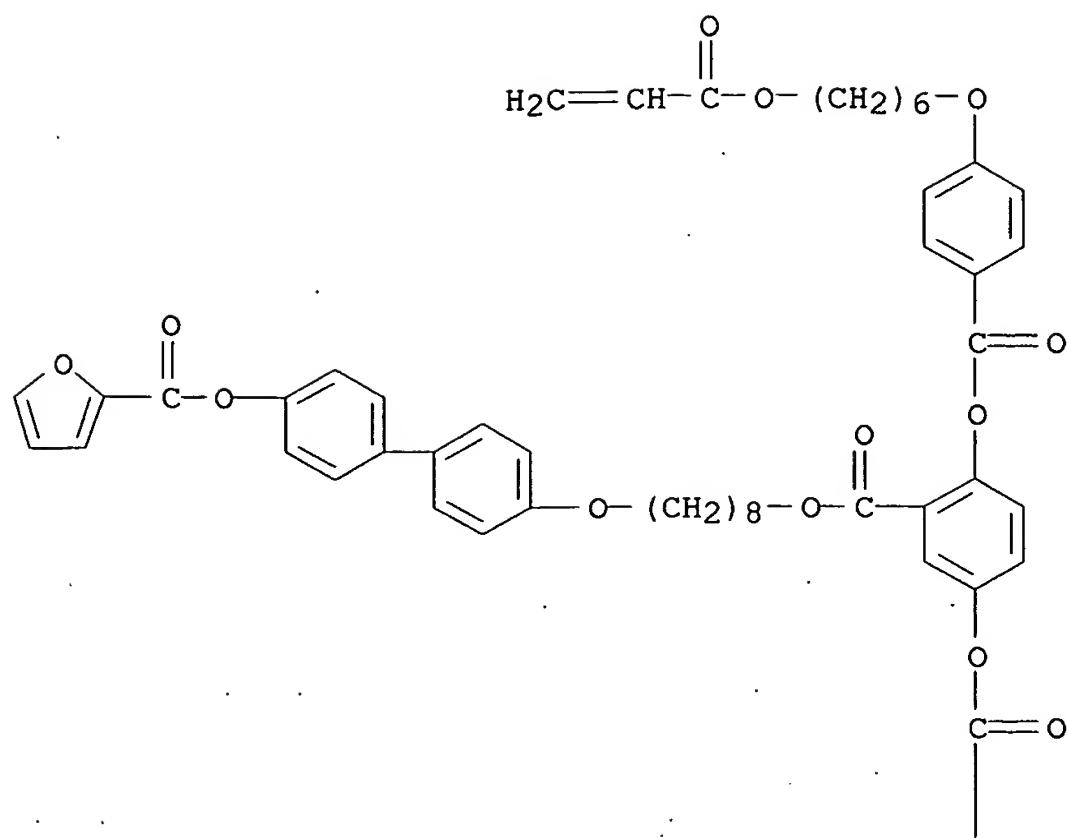
RN 295783-12-9 CAPLUS

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(CA INDEX NAME)

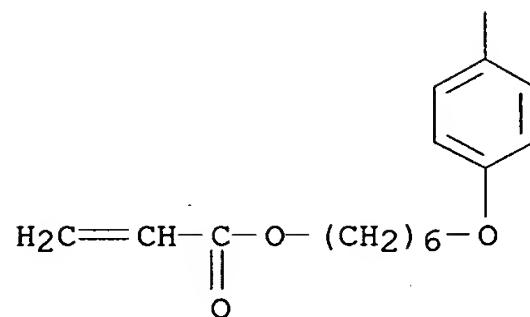
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CMF C64 H68 O16

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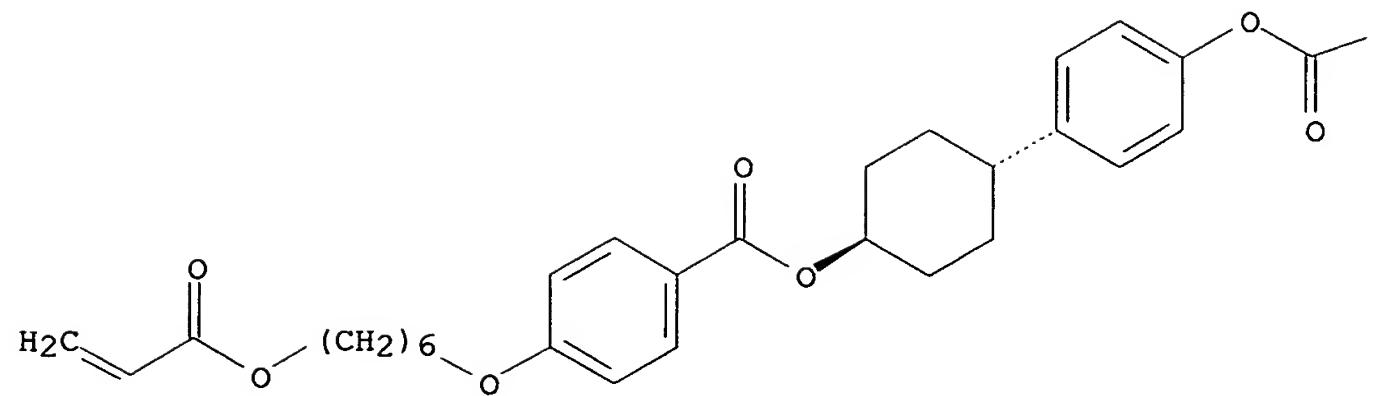


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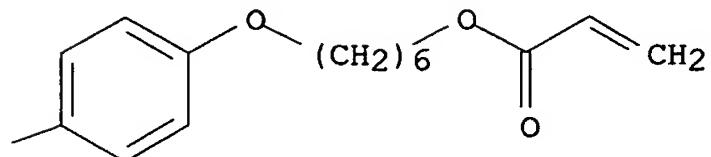
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CMF C44 H52 O10

Relative stereochemistry.

PAGE 1-A



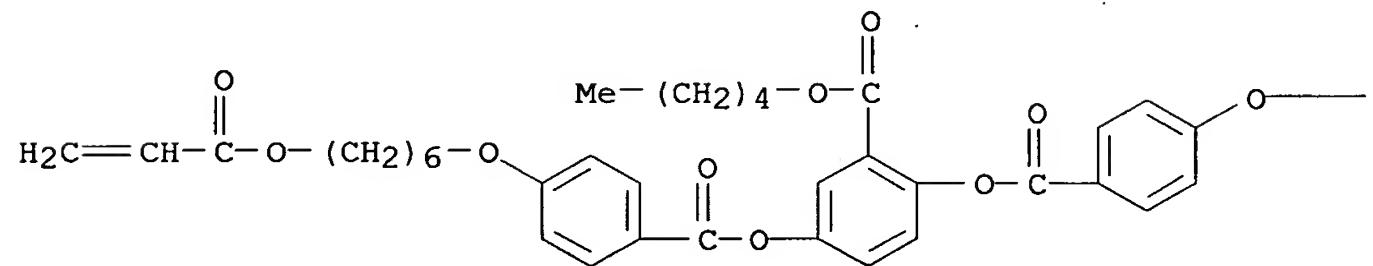
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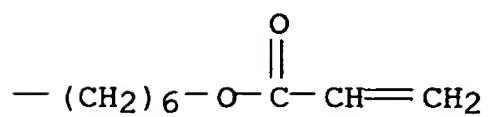
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CMF C44 H52 O12

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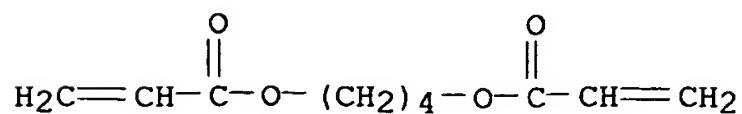


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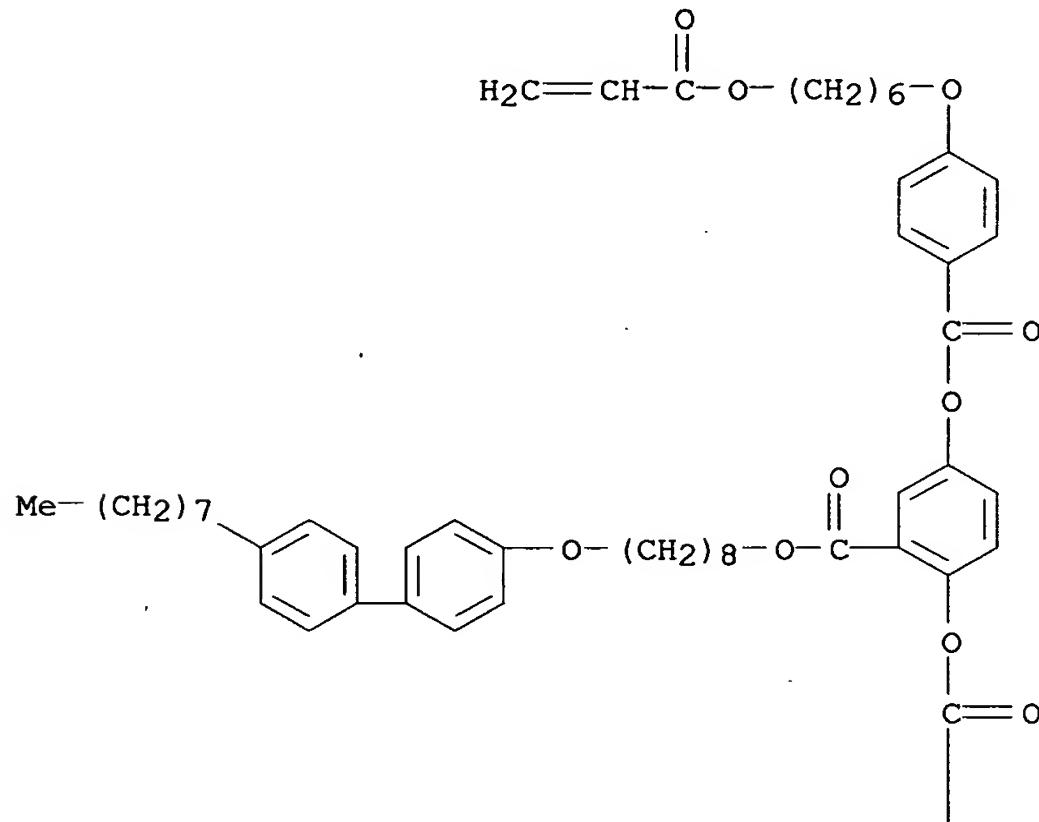
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CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-[4'-octyl[1,1'-biphenyl]-4-yl]oxy]octyl ester, polymer with 1,4-butanediyl di-2-propenoate, 4-[trans-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]cyclohexyl]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and pentyl 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI) (CA INDEX NAME)

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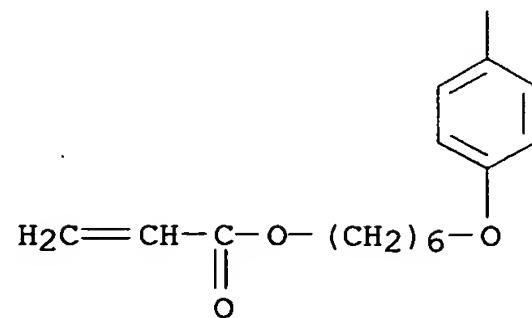
CRN 295782-97-7

CMF C67 H82 O13

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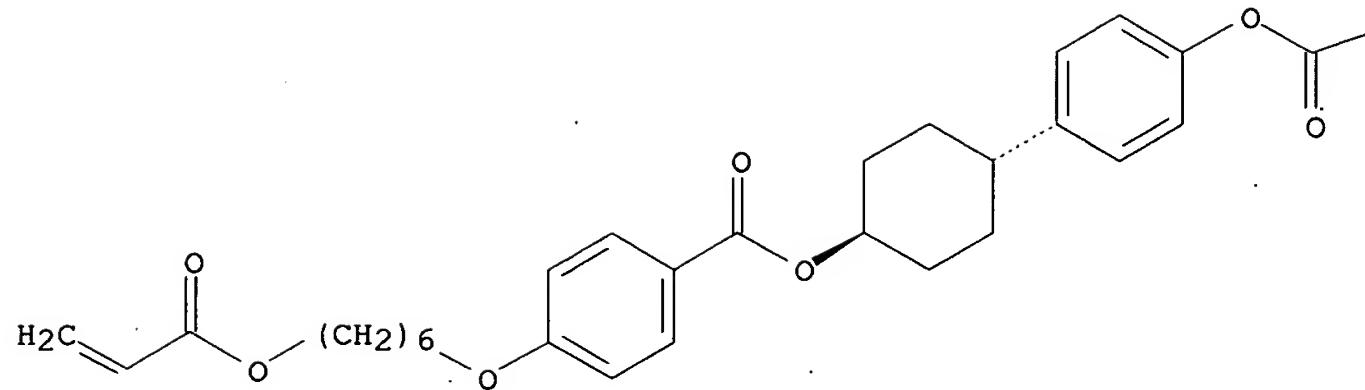
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CRN 216879-99-1

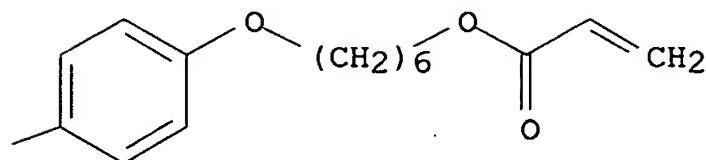
CMF C44 H52 O10

Relative stereochemistry.

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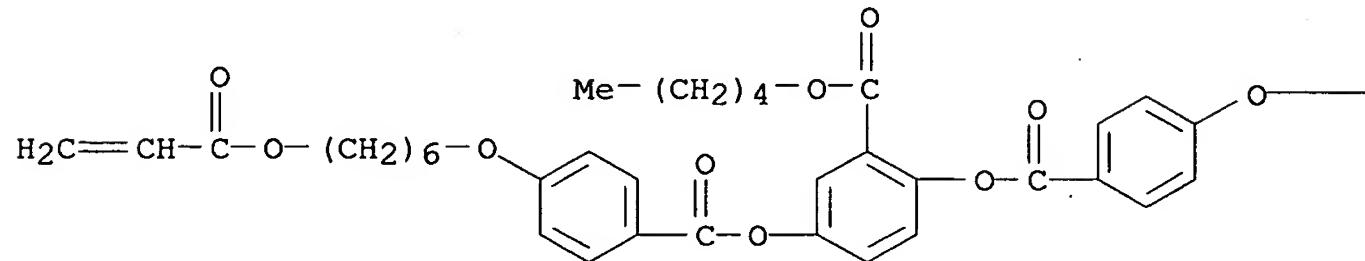
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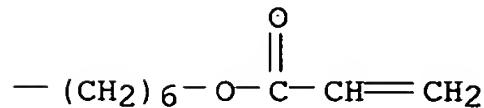
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CMF C44 H52 O12

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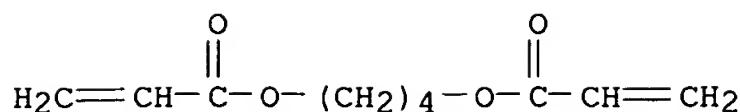


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CM 4

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CMF C10 H14 O4

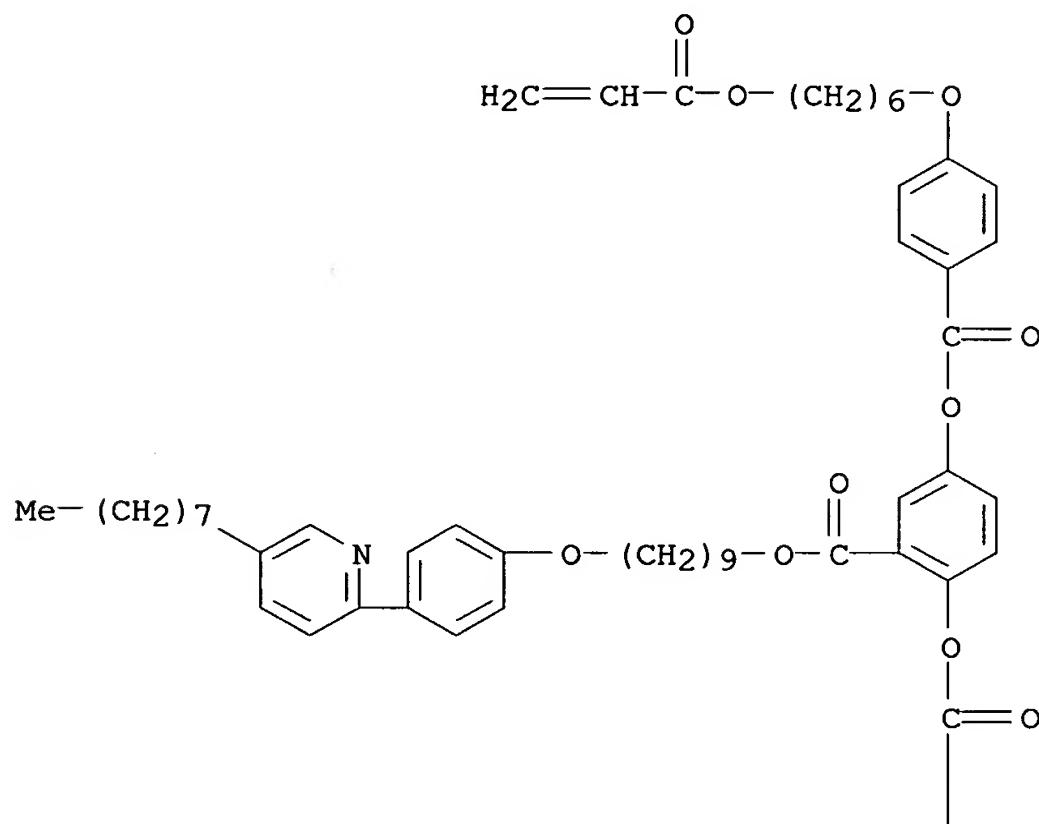


IT 295782-95-5P 295782-97-7P 295783-01-6P  
 295783-02-7P 295783-03-8P 295783-04-9P  
 295783-05-0P 295783-06-1P 295783-08-3P  
 295783-09-4P 295783-10-7P 295783-11-8P  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (preparation of liquid crystalline monomers)

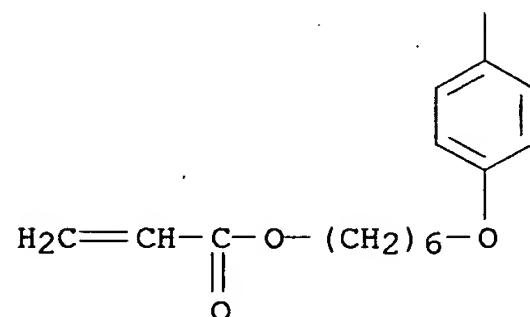
RN 295782-95-5 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-  
 , 9-[4-(5-octyl-2-pyridinyl)phenoxy]nonyl ester (9CI) (CA INDEX NAME)

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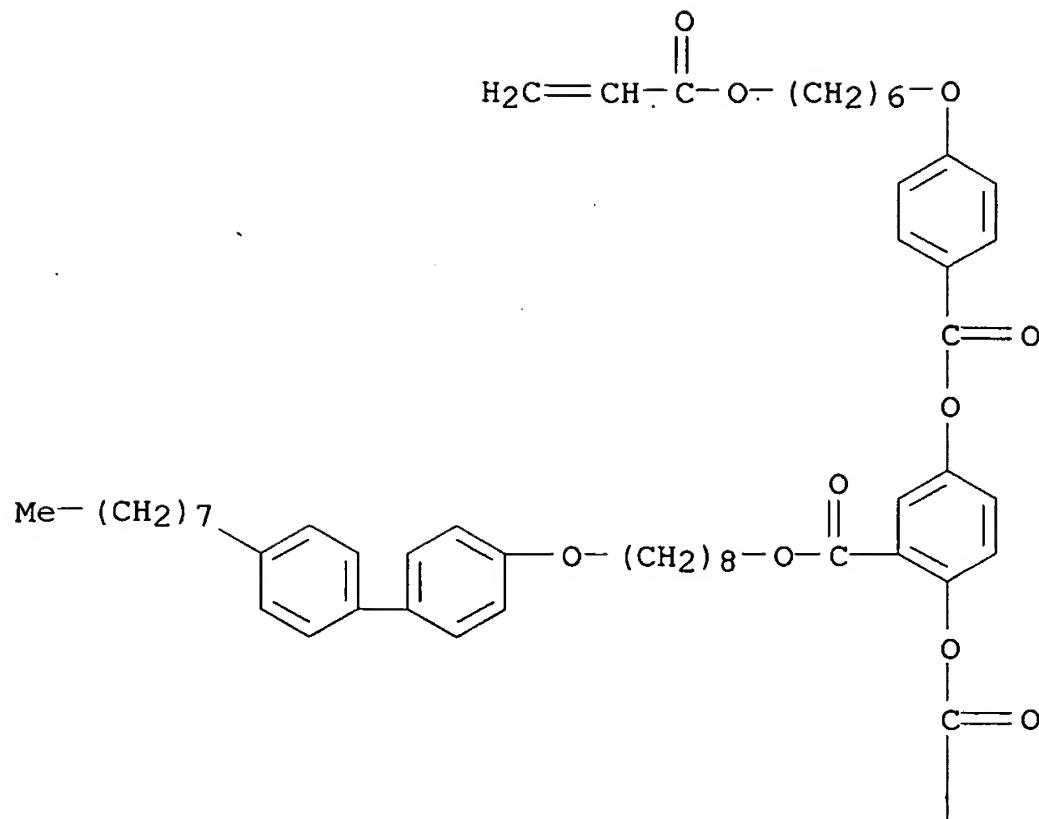
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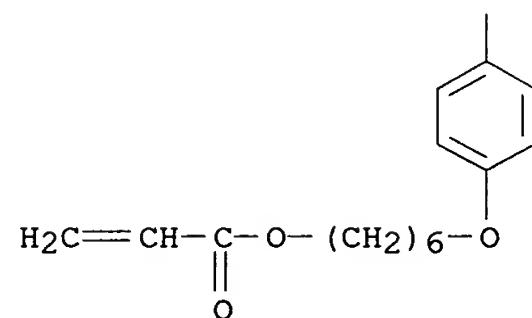
RN 295782-97-7 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-  
 , 8-[4'-octyl[1,1'-biphenyl]-4-yloxy]octyl ester (9CI) (CA INDEX NAME)

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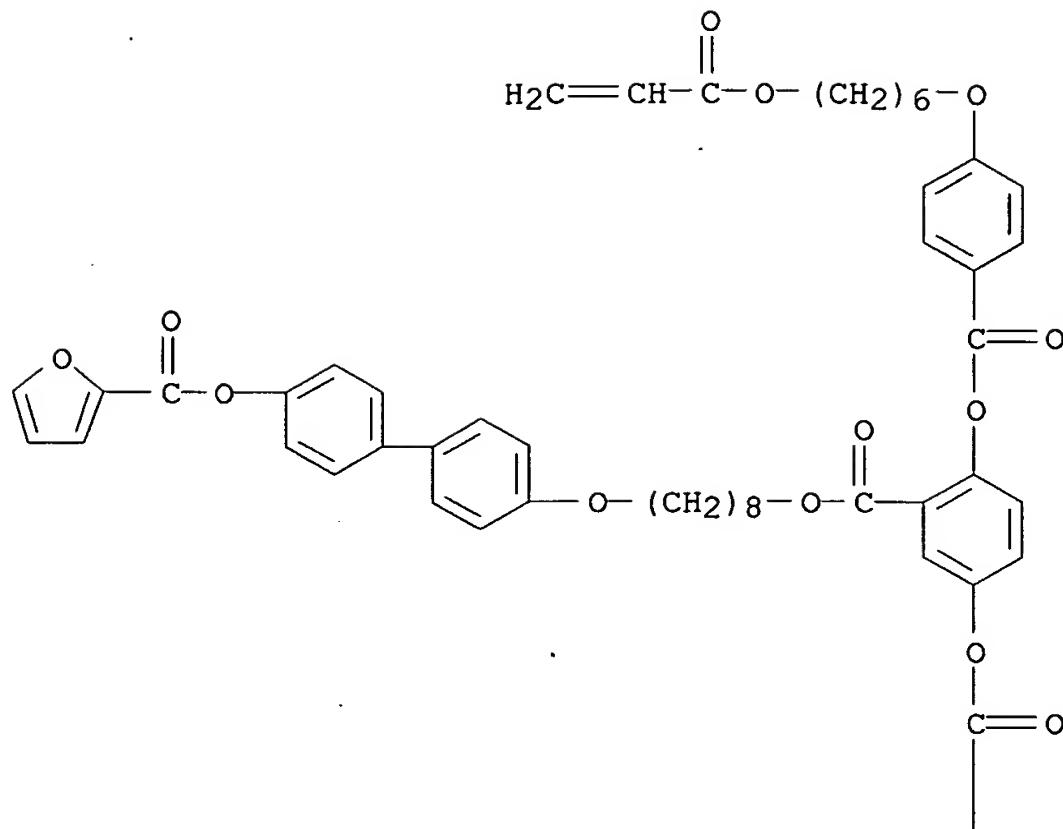
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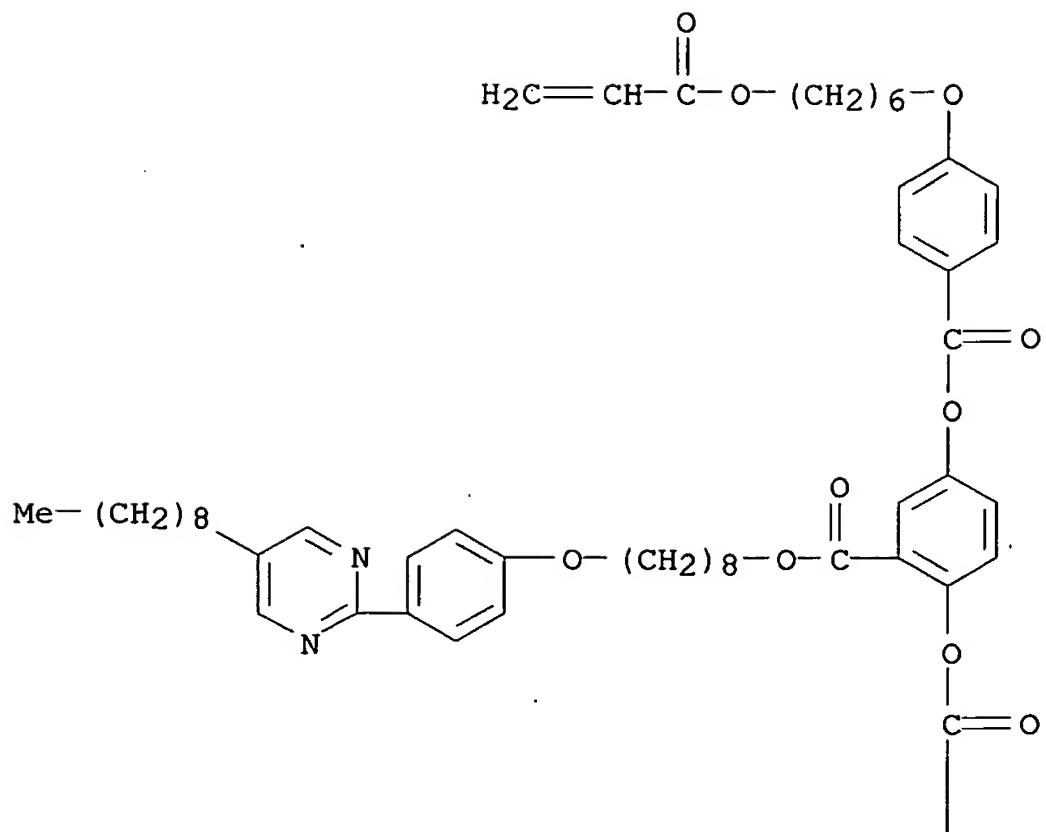
RN 295783-01-6 CAPLUS

CN 2-Furancarboxylic acid, 4'-[ [8-[[2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoyl]oxy]octyl]oxy][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

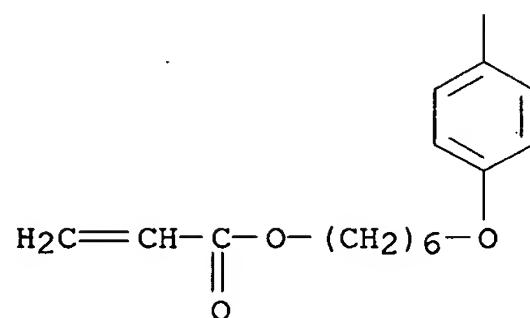
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PAGE 1-A

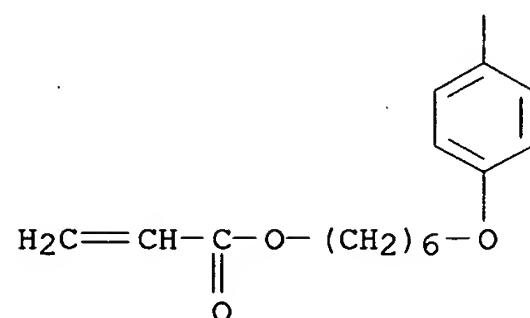
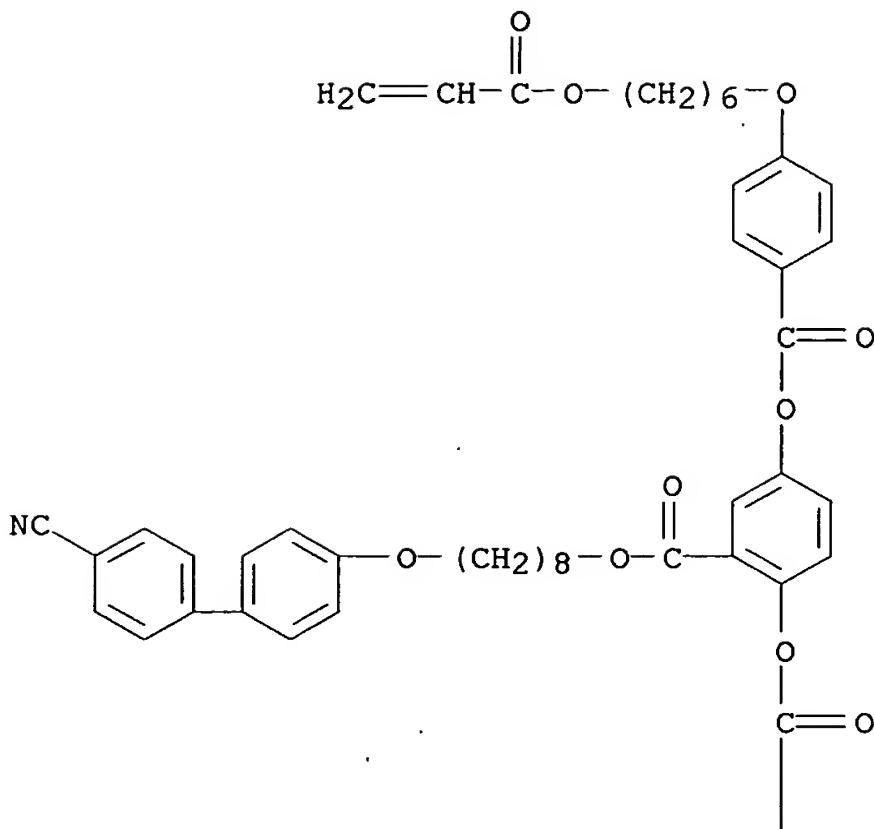


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RN 295783-03-8 CAPLUS

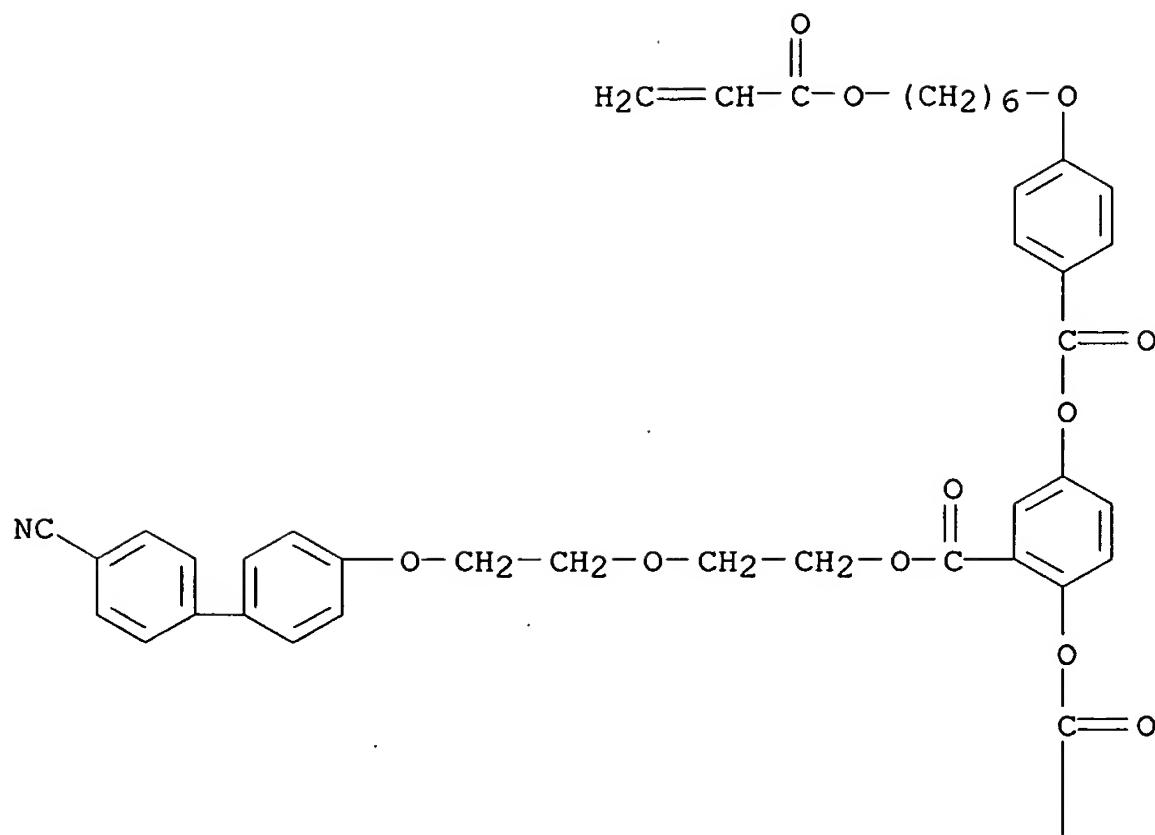
CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]octyl ester (9CI) (CA INDEX NAME)



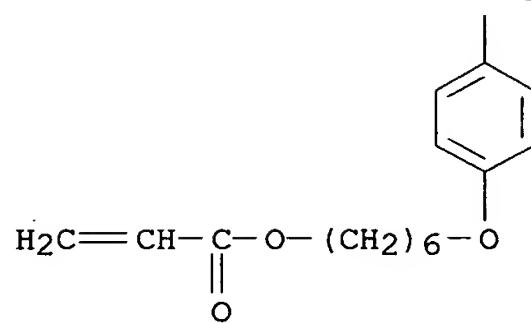
RN 295783-04-9 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 2-[2-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]ethoxy]ethyl ester (9CI) (CA INDEX NAME)

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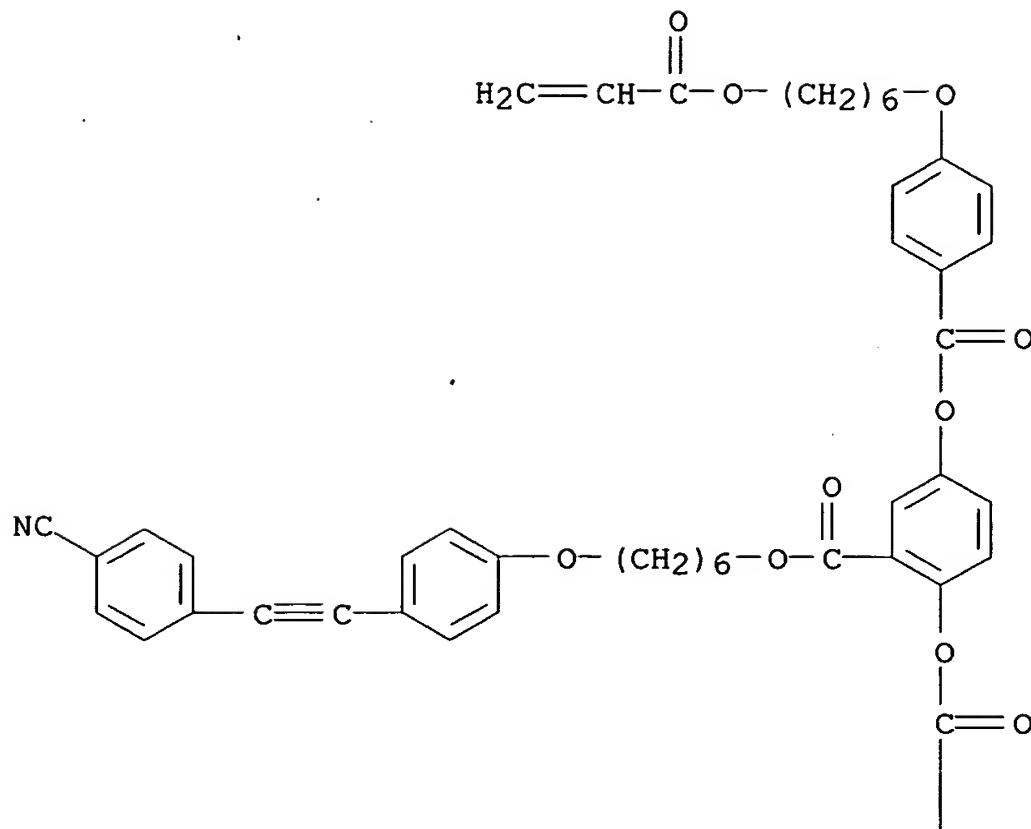
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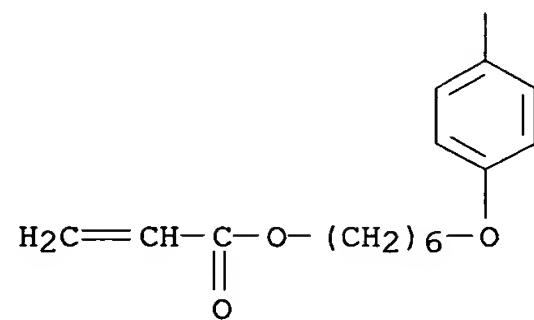
RN 295783-05-0 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 6-[4-[(4-cyanophenyl)ethynyl]phenoxy]hexyl ester (9CI) (CA INDEX NAME)

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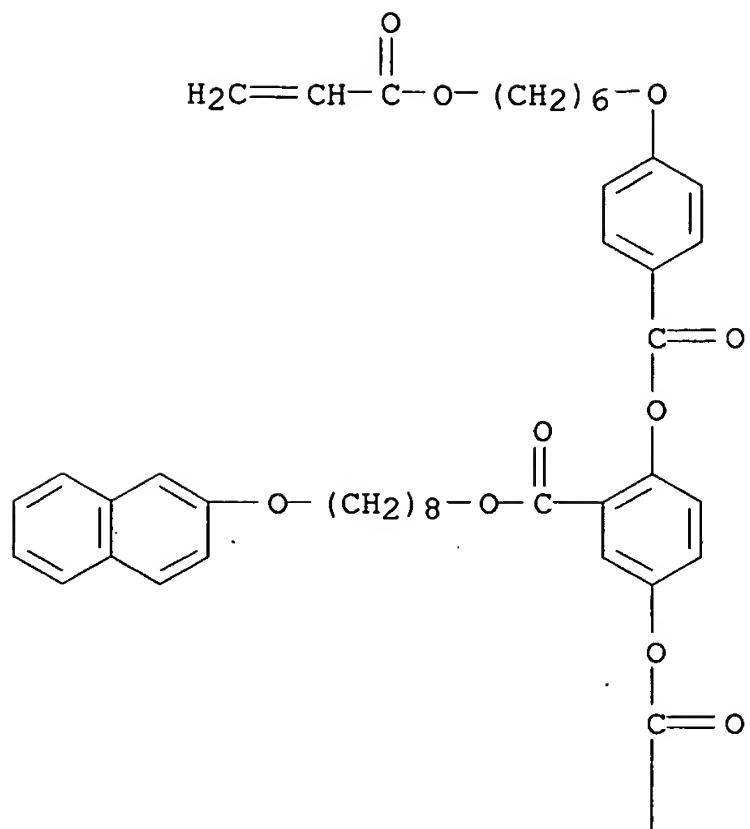
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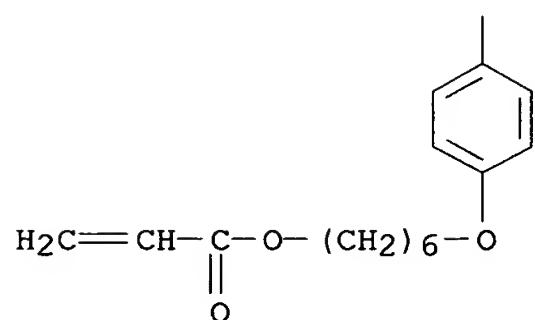
RN 295783-06-1 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-(2-naphthalenyl)octyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



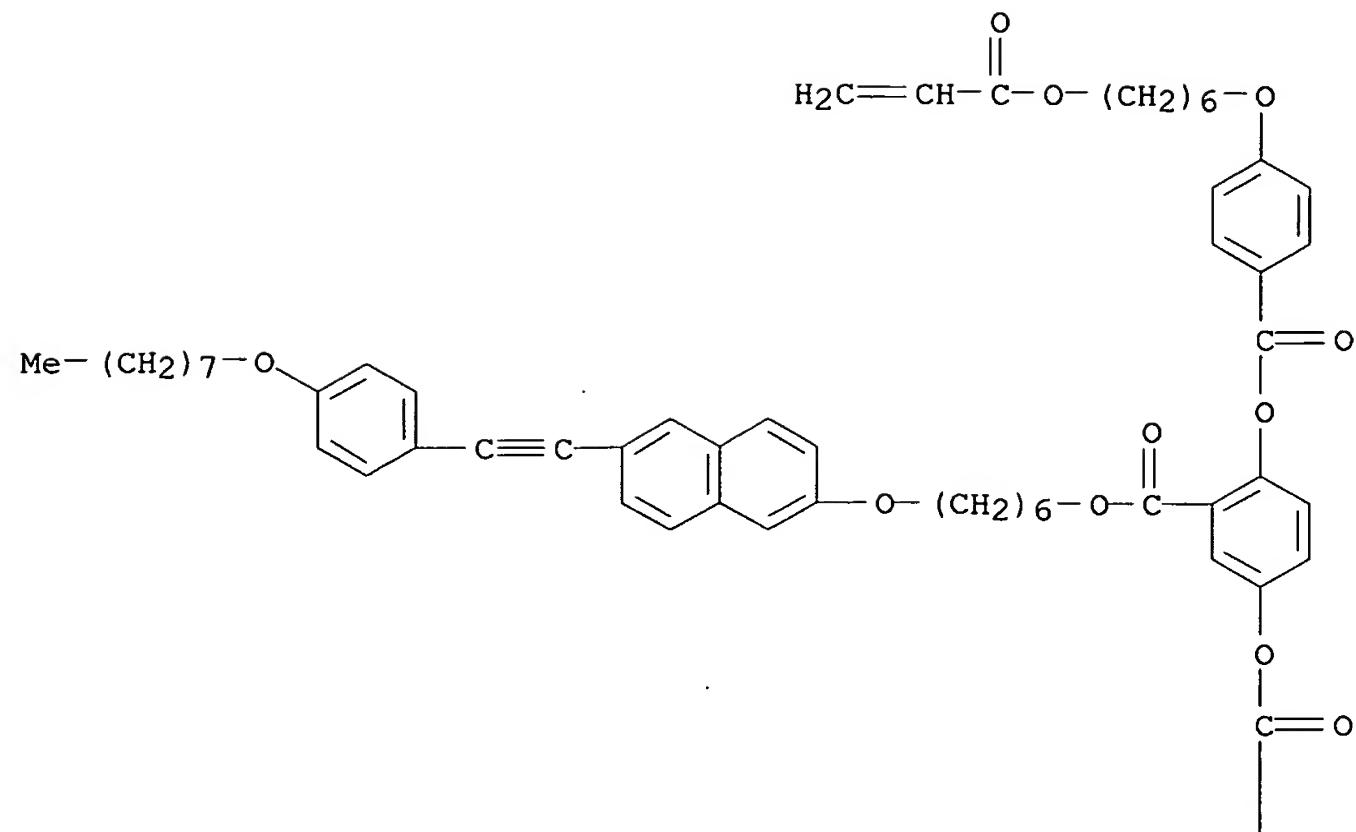
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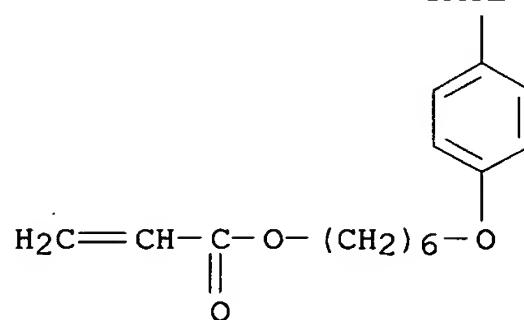
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(CA INDEX NAME)

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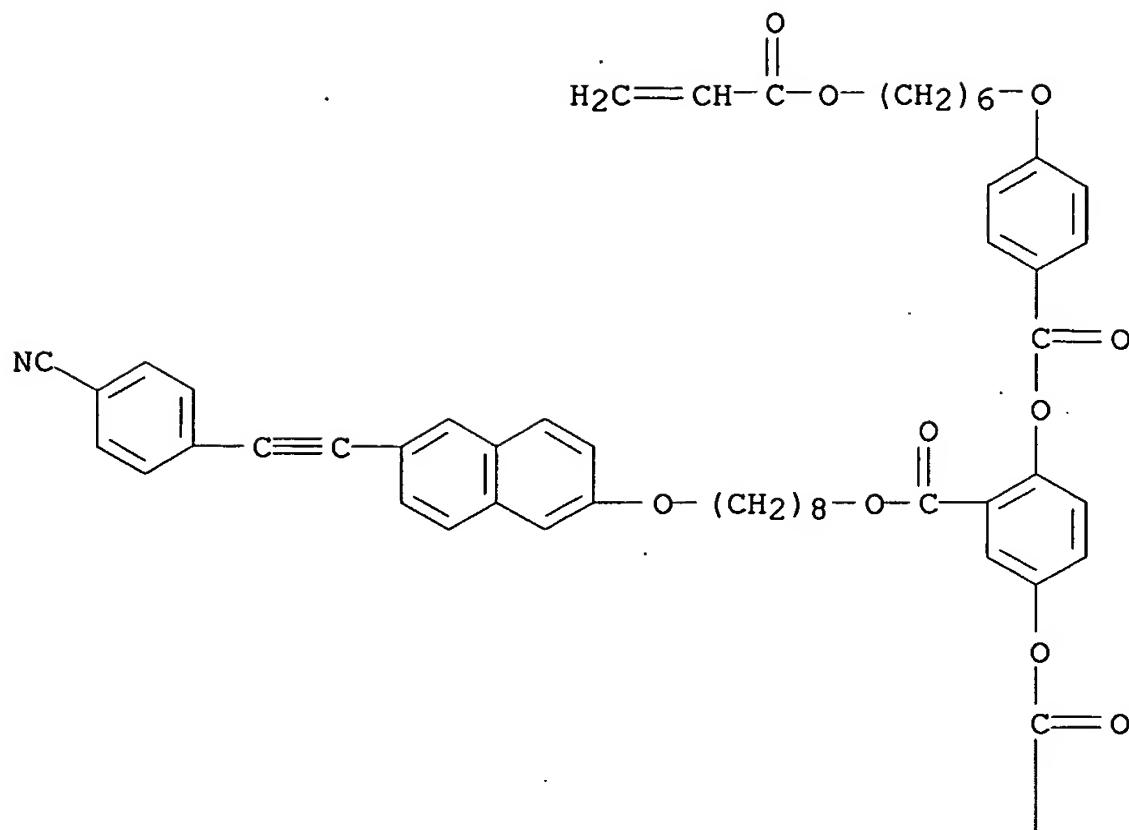
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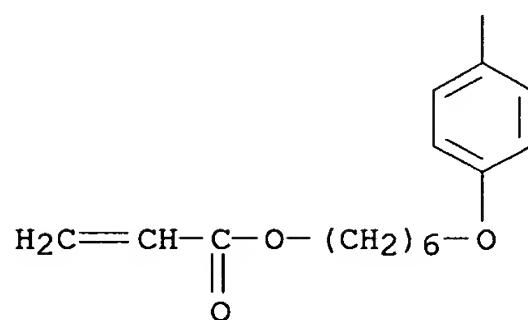
RN 295783-09-4 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-[[6-[(4-cyanophenyl)ethynyl]-2-naphthalenyl]oxy]octyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



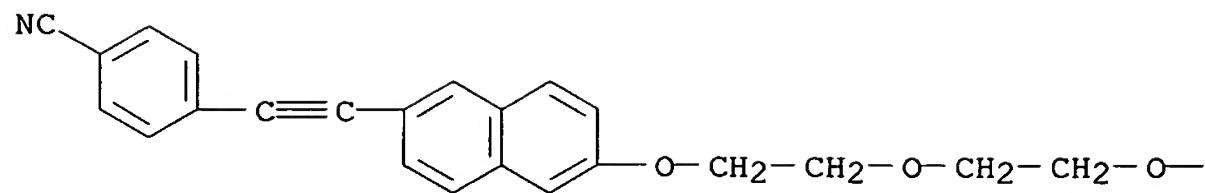
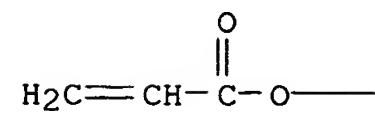
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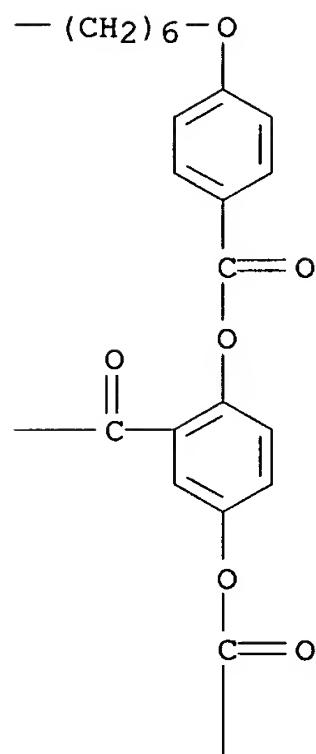
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CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 2-[2-[[6-[(4-cyanophenyl)ethynyl]-2-naphthalenyl]oxy]ethoxy]ethyl ester  
(9CI) (CA INDEX NAME)

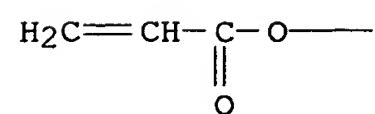
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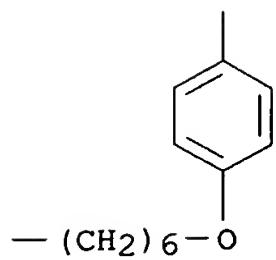
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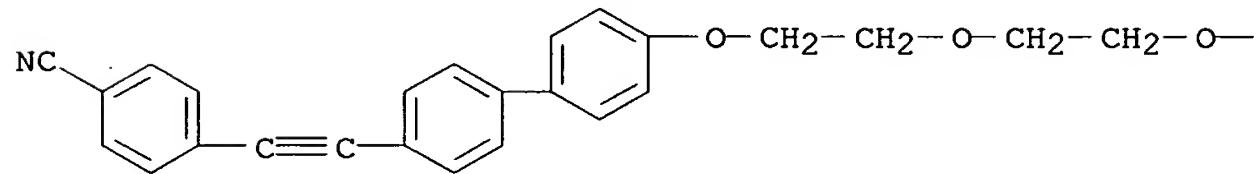
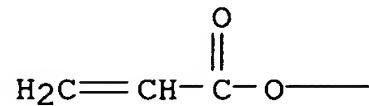
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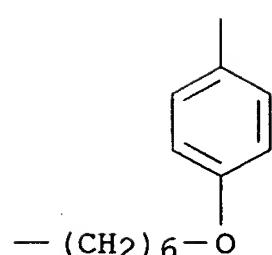
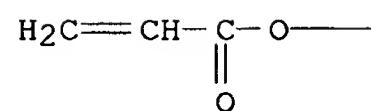
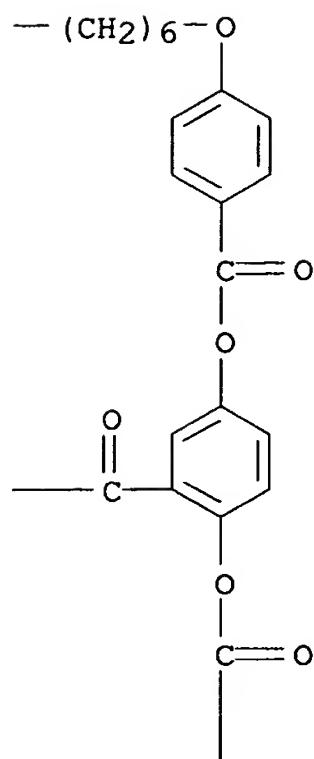


RN 295783-11-8 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, 2-[2-[[4'-[(4-cyanophenyl)ethynyl][1,1'-biphenyl]-4-yl]oxy]ethoxy]ethyl ester (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:184128 CAPLUS  
 DOCUMENT NUMBER: 132:322203  
 TITLE: Synthesis and properties of new mesogen  
 -jacketed liquid crystalline polymers  
 AUTHOR(S): Mi, Qi-Ding; Zhou, Qi-Feng  
 CORPORATE SOURCE: Department of Polymer Science & Engineering, College

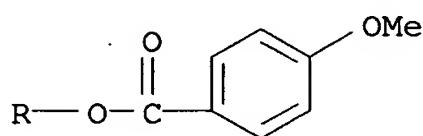
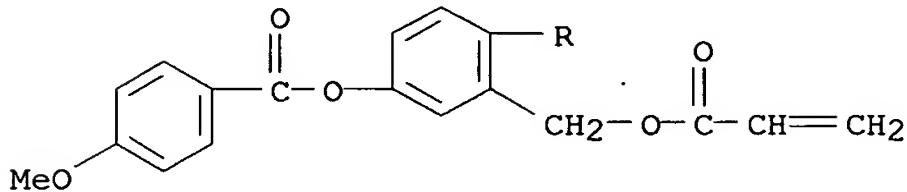
of Chemistry, Peking University, Beijing, 100871,  
Peop. Rep. China  
SOURCE: Chinese Journal of Polymer Science (2000),  
18(2), 139-148  
CODEN: CJPSEG; ISSN: 0256-7679  
PUBLISHER: Springer-Verlag  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Some new mesogen-jacketed liquid crystalline polymers with acrylic polymer backbones, spacers, and mesogenic units of different structures were synthesized by radical polymerization. The mesomorphic behavior of these polymers was examined using DSC and polarizing optical microscopy. Their liquid crystallinity is influenced by the variation of polymer backbone, spacer, and mesogenic unit and its terminal groups. The results show that (1) a more flexible polymer main -chain is more favorable to the formation of a liquid-crystalline phase, (2) a flexible spacer will decrease the "jacket effect" and the liquid crystallinity, and (3) a subtle modification of the terminal groups on the mesogenic unit may also have a significant influence on properties of the polymers.

IT 105252-92-4P 126757-97-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(liquid-crystalline monomer; preparation and properties of mesogen-jacketed liquid crystalline polymers)

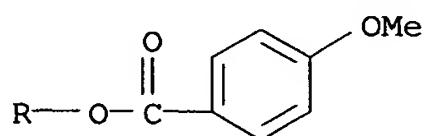
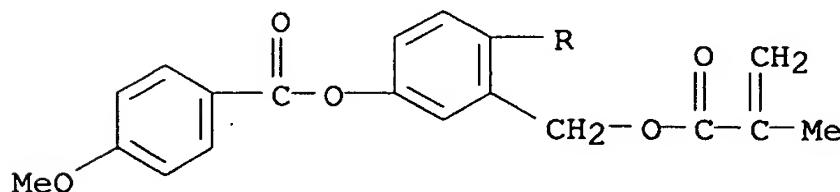
RN 105252-92-4 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)

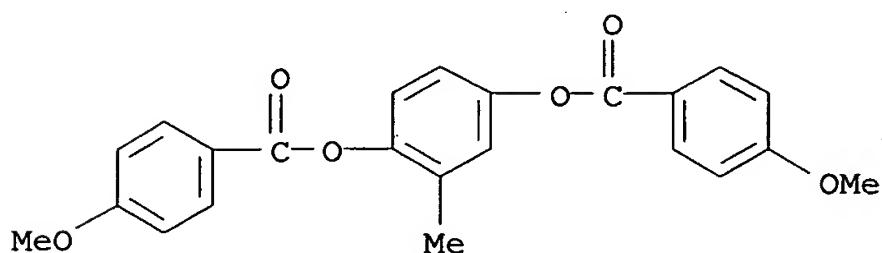


RN 126757-97-9 CAPLUS

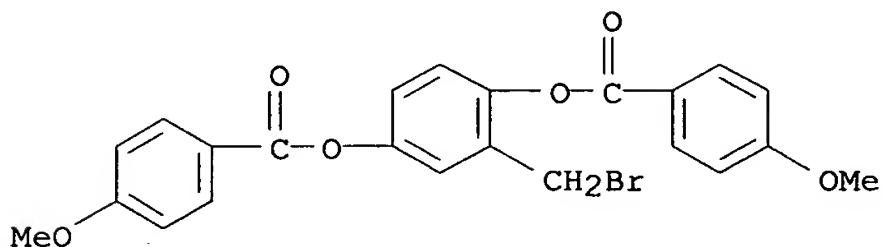
CN Benzoic acid, 4-methoxy-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 51933-65-4P 143903-26-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (monomer intermediate; preparation and properties of mesogen-jacketed liquid crystalline polymers)  
 RN 51933-65-4 CAPLUS  
 CN Benzoic acid, 4-methoxy-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



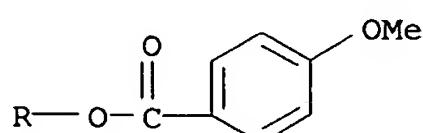
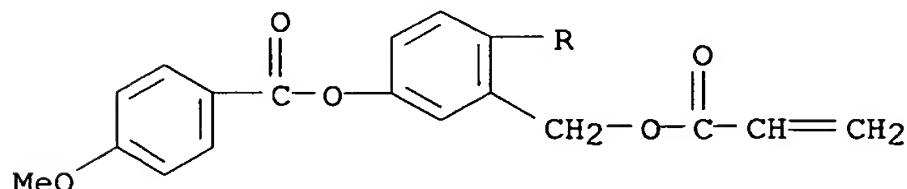
RN 143903-26-8 CAPLUS  
 CN Benzoic acid, 4-methoxy-, 2-(bromomethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 105280-90-8P 126757-98-0P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and properties of mesogen-jacketed liquid crystalline polymers)  
 RN 105280-90-8 CAPLUS  
 CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

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CRN 105252-92-4  
CMF C26 H22 O8

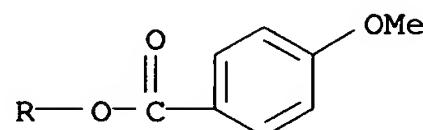
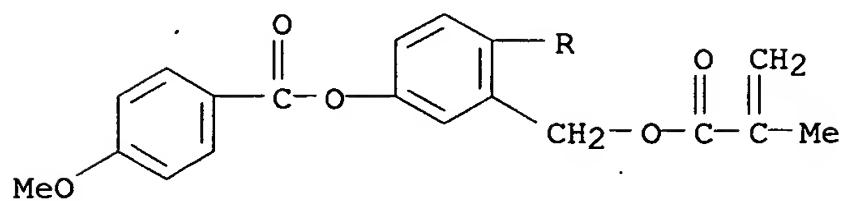


RN 126757-98-0 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 126757-97-9  
CMF C27 H24 O8



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2000:84742 CAPLUS  
DOCUMENT NUMBER: 132:123042  
TITLE: Liquid crystalline compounds and crosslinkable mixtures thereof for optical devices  
INVENTOR(S): Ohlemacher, Angela; Benecke, Carsten; Schmitt, Klaus  
PATENT ASSIGNEE(S): Rolic Ag, Switz.  
SOURCE: PCT Int. Appl., 61 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|---|------|----------|-----------------|--------------|
| WO 2000005189   | A1   | 20000203 | WO 1999-IB1294  | 19990719 <-- |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |              |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
| AU 9946408  | A1   | 20000214 | AU 1999-46408   | 19990719 <-- |
| EP 1100766  | A1   | 20010523 | EP 1999-929631  | 19990719     |
| EP 1100766  | B1   | 20040407 |                 |              |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO   |      |          |                 |              |
| JP 2002521354   | T    | 20020716 | JP 2000-561146  | 19990719     |
| AT 263746   | T    | 20040415 | AT 1999-929631  | 19990719     |
| US 6613245  | B1   | 20030902 | US 2001-744295  | 20010405     |
| PRIORITY APPLN. INFO.:  |      |          | CH 1998-1564    | A 19980724   |
|   |      |          | WO 1999-IB1294  | W 19990719   |

OTHER SOURCE(S):

MARPAT 132:123042

AB Title compds. R1S1O[AZ1]kB[Z2C]1[Z3D]mC(:O)OS2R2, where A, C, and D are 1,5-naphthyl or (un)substituted p-C<sub>6</sub>H<sub>4</sub>; B is 1,5-naphthyl or (un)substituted biphenyl, such that one of the substituents in A, B, C, or D is not H and at least one of the phenylene rings can be replaced by a 1,4-phenylene ring in which one or two nonadjacent CH groups have been replaced by nitrogen; k, l, m = 0, 1, and k + l + m = 1 or 2; Z1, Z2, Z3 are independently a single bond, -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>O-, -OCH<sub>2</sub>-, -COO-, -OOC-, -CH=CH-COO-, -OOC-CH=CH-, -(CH<sub>2</sub>)<sub>4</sub>-, -O(CH<sub>2</sub>)<sub>3</sub>-, -(CH<sub>2</sub>)<sub>3</sub>O- or alkynyl; R1, R2 are crosslinkable groups, and S1, S2 are spacer units, such that R1S1 and R2S2 do not contain -OO- or -NO- groups are prepared having an optical anisotropy as great as possible with the absorption wavelength as short as possible, especially for use in optical components (no data). Thus, 7 mmol N-(3-dimethylaminopropyl)-N'-ethylcarbodiimide was added at 0° to a solution of 4'-hydroxybiphenyl-4-carboxylic acid 4-acryloylbutyl ester 7, 4-(6-acryloyloxyhexyloxy)-3-methoxybenzoic acid 7, and 4-dimethylaminopyridine 7 mmol in dichloromethane, stirred 1 h, left overnight at room temperature, washed, extracted, dried, filtered, concentrated, and purified, giving 2.58 g 4'-(4-(6-acryloyloxyhexyloxy)-3-methoxybenzoyloxy)biphenyl-4-carboxylic acid 4-acryloyloxybutyl ester having m.p. (C-Sx) 77°, (Sx-N) 60° Cl.p. (N-I) 62°.

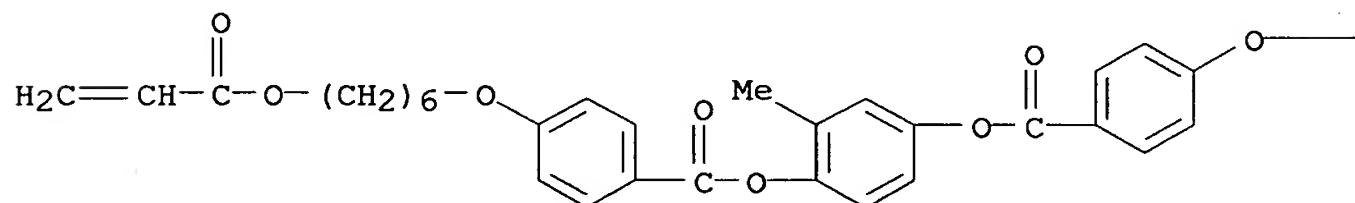
IT 125248-71-7

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(liquid crystalline compds. and crosslinkable mixts. thereof for optical devices)

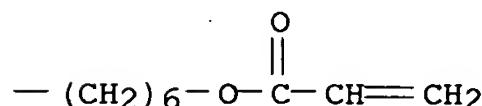
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:791850 CAPLUS

DOCUMENT NUMBER: 132:36996

TITLE: Method for producing effect coating based on liquid crystalline monomers

INVENTOR(S): Stohr, Andreas; Schoenfeld, Axel

PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany

SOURCE: Ger. Offen., 10 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE         |
|--|------|----------|------------------|--------------|
| DE 19825924  | A1   | 19991209 | DE 1998-19825924 | 19980608 <-- |
| EP 964035  | A1   | 19991215 | EP 1999-110248   | 19990527 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO |      |          |                  |              |
| KR 2000005972  | A    | 20000125 | KR 1999-20909    | 19990607 <-- |
| JP 2000080308  | A    | 20000321 | JP 1999-159649   | 19990607 <-- |
| DE 1998-19825924 A 19980608  |      |          |                  |              |

PRIORITY APPLN. INFO.:

AB Effect coatings are produced by spraying a substrate with powdered cholesteric liquid crystalline monomers selected from ZYAYMAX1 and/or

(ZYAY)2MYX1

and/or (ZYAYMY)2X2 [A = (O-, S-, NH-, NMe-interrupted) C1-30 alkylene; M = mesogenic group; X1, X2 = chiral residue; Y = bond, O, S, CO<sub>2</sub>, etc.; Z = polymerizable group], or ≥1 powdered achiral liquid crystalline monomer ZYAYMYAYZ (A, M, Y, Z as above) and ≥1 chiral specified compound, heating the coated substrate to mesophase temperature and curing in cholesteric phase. For example, dissolving cholesteryl 3,4-di(2-acryloyloxyethoxy)benzoate and Additol XL 496 (a hydroxylated polyester) in CHCl<sub>3</sub> in the absence of light, evaporating the solvent, vacuum-drying the residual mixture of monomers at room temperature and pulverizing

in the presence of dry ice, spray-coating the powder on a metal sheet (precoated with a black primer) and heating the sheet at 80° gave a goniochromatic coating which changed its color from red to green with the angle of view.

IT 252269-31-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(cholesteric film; method for producing effect coating by spray coating of powdered liquid crystalline monomers and curing on the substrate)

RN 252269-31-1 CAPLUS

CN Cholest-5-en-3-ol (3β)-, 2-propenoate, polymer with byk 361 and 1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 134633-08-2

CMF Unspecified

CCI PMS, MAN

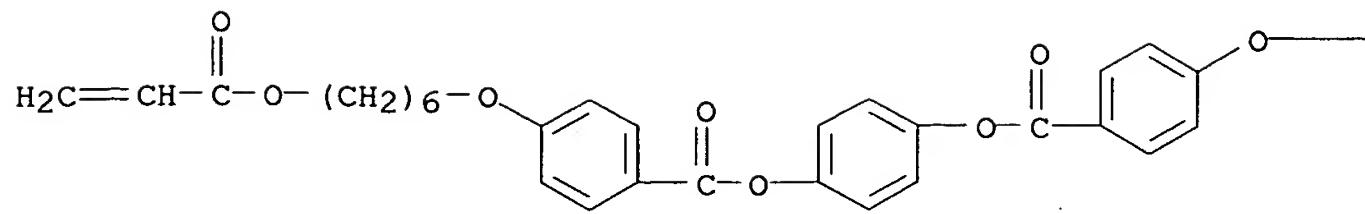
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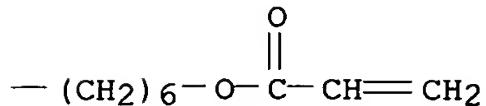
CRN 123864-17-5

CMF C38 H42 O10

PAGE 1-A



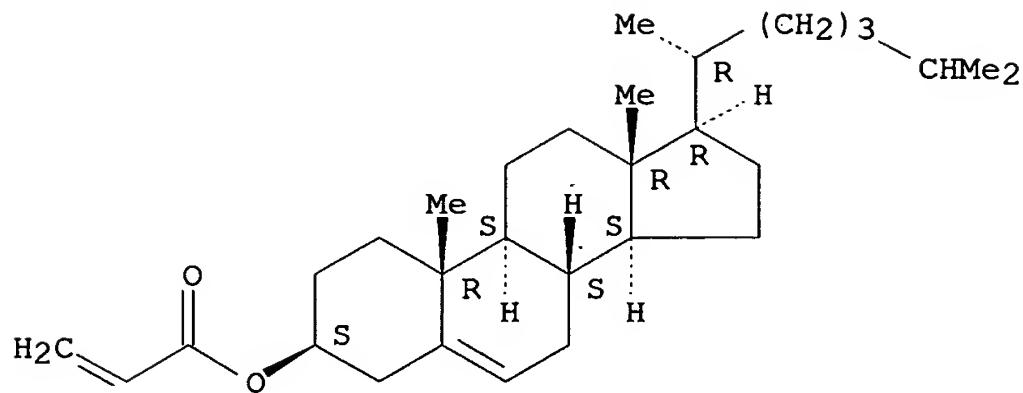
PAGE 1-B



CM 3

CRN 26089-39-4  
CMF C30 H48 O2

Absolute stereochemistry.



IT 123864-17-5

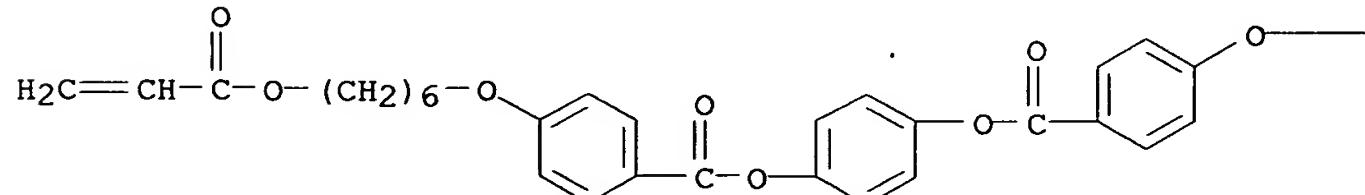
RL: RCT (Reactant); RACT (Reactant or reagent)  
(polymerization; method for producing effect coating by spray coating of powdered

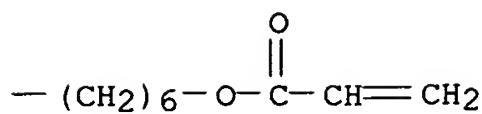
liquid crystalline monomers and curing on the substrate)

RN 123864-17-5 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A





L11 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:254119 CAPLUS  
 DOCUMENT NUMBER: 130:312217  
 TITLE: Polymerizable chiral compounds and their application  
 INVENTOR(S): Meyer, Frank; Ishida, Hiroki; Schuhmacher, Peter  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Ger. Offen., 12 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE         |
|-------------|------|----------|------------------|--------------|
| DE 19843724 | A1   | 19990415 | DE 1998-19843724 | 19980924 <-- |
| CH 692985   | A5   | 20030115 | CH 1998-1981     | 19980930     |
| JP 11193287 | A    | 19990721 | JP 1998-284040   | 19981006 <-- |
| GB 2330139  | A    | 19990414 | GB 1998-21817    | 19981007 <-- |
| GB 2330139  | B    | 20020612 |                  |              |

PRIORITY APPLN. INFO.: DE 1997-19744321 A1 19971008

OTHER SOURCE(S): MARPAT 130:312217

AB Chiral monomers useful in electrooptical devices and as dopants for liquid crystals have the structure [ZY(A)<sub>m</sub>YMY]<sub>n</sub>X [A = spacer; M = mesogenic group containing 2 (un)substituted phenylene groups linked by O, CO, CO<sub>2</sub>, O<sub>2</sub>C, or OCO<sub>2</sub>; X = chiral residue of THF or hexahydrofuro[3,2-b]furan; each Y = direct link, O, S, CO<sub>2</sub>, O<sub>2</sub>C, OCO<sub>2</sub>, CONR, NRCO (R = H, C<sub>1</sub>-4 alkyl); Z = polymerizable group; m = 0, 1; n = 2-6]. Thus, 1,4:3,6-dianhydrosorbitol bis(4-hydroxybenzoate) was esterified with 4-(acryloyloxy)butyl 4-(chloroformyl)phenyl carbonate in DMF containing cyclohexyldimethylamine to give a dextrorotatory diacrylate monomer in 96% yield with helical twisting power 63 μm<sup>-1</sup> in ZLI 1840. Addition of various amts. of this monomer to various nematic compds. and mixts. gave compns. which reflected light at a wavelength which depended on the amount added.

IT 223585-43-1 223585-50-0 223585-56-6

RL: TEM (Technical or engineered material use); USES (Uses)  
(nematic compound mixts. containing polymerizable mesogenic chiral compds.)

RN 223585-43-1 CAPLUS

CN Benzoic acid, 4-[ (butoxycarbonyl)oxy]-, 2-methyl-1,4-phenylene ester, mixt. with methyl-4-[ [4-[ [4-[ (1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoyl]oxy]phenyl 4-[ (butoxycarbonyl)oxy]benzoate and 2-methyl-1,4-phenylene bis[4-[ [4-[ (1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoate] (9CI) (CA INDEX NAME)

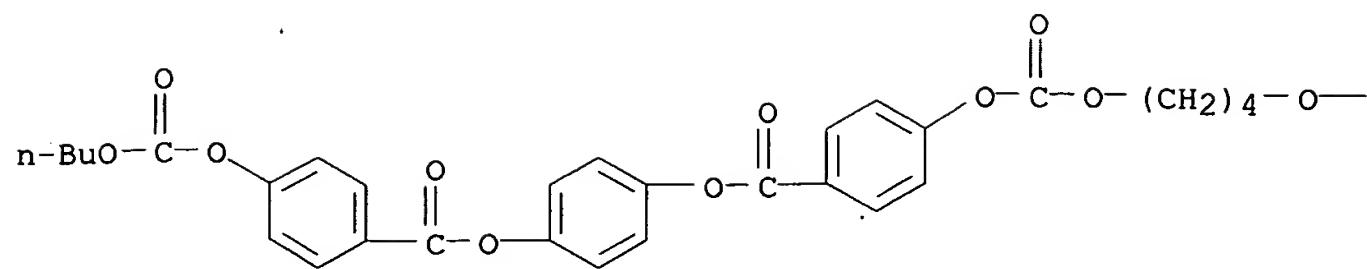
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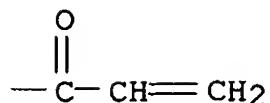
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PAGE 1-A



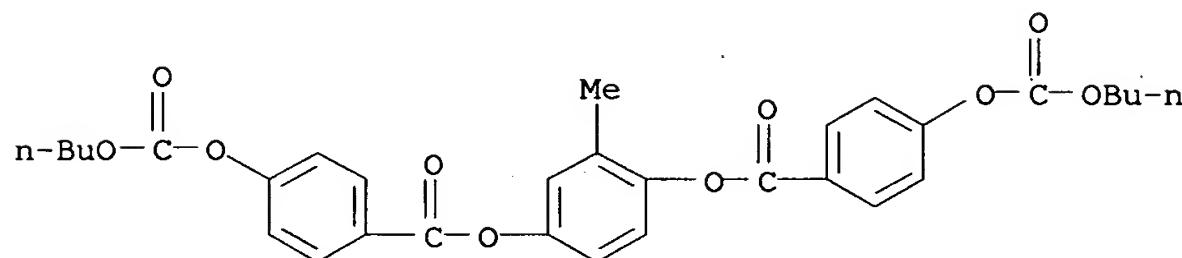
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PAGE 1-B



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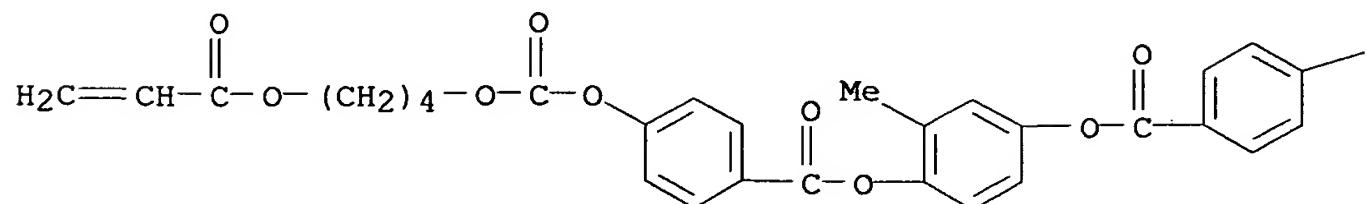
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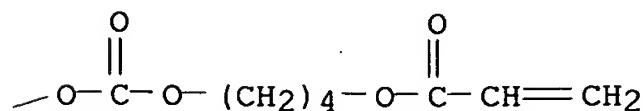
CM 3

CRN 187585-64-4  
CMF C37 H36 O14

PAGE 1-A



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RN 223585-50-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-1,4-phenylene ester, mixt. with methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate and 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate ] (9CI) (CA INDEX NAME)

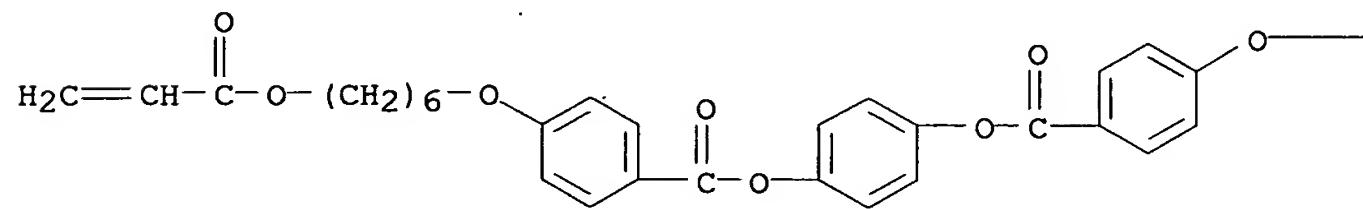
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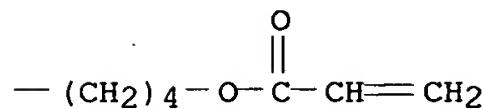
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D1-Me

PAGE 1-B

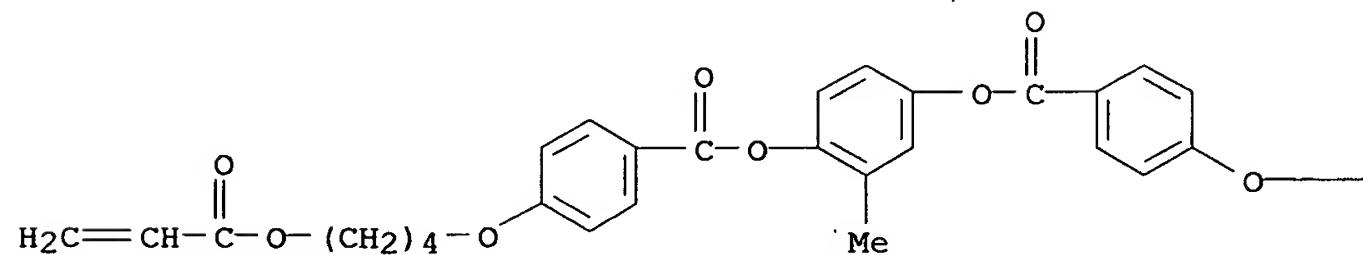


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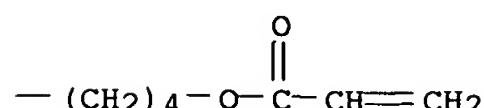
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CMF C35 H36 O10

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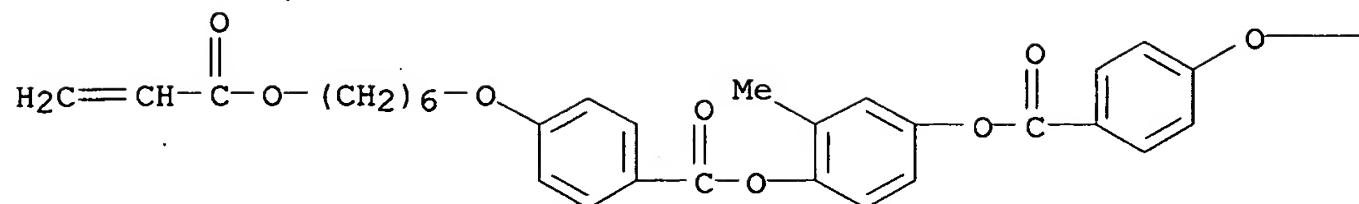
PAGE 1-B



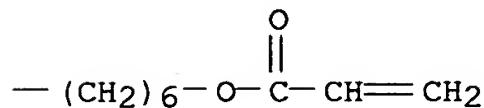
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CRN 125248-71-7  
CMF C39 H44 O10

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PAGE 1-B



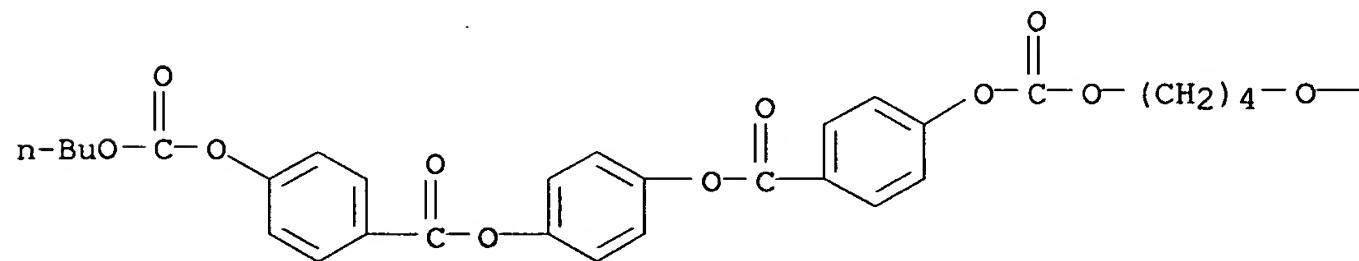
RN 223585-56-6 CAPLUS

CN Benzoic acid, 4-[ (butoxycarbonyl)oxy]-, 2-methyl-1,4-phenylene ester,  
mixt. with methyl-4-[[4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoyl]oxy]phenyl 4-[ (butoxycarbonyl)oxy]benzoate, 2-methyl-1,4-phenylene bis[4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoate] and  
4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]phenyl  
4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoate (9CI) (CA  
INDEX NAME)

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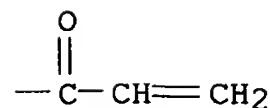
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CCI IDS

PAGE 1-A



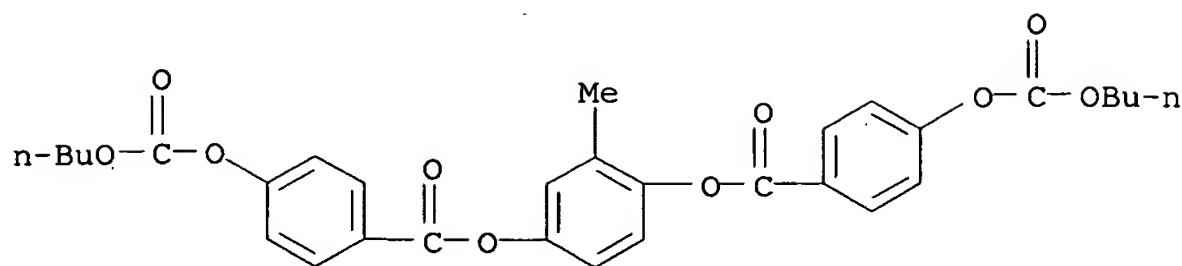
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PAGE 1-B



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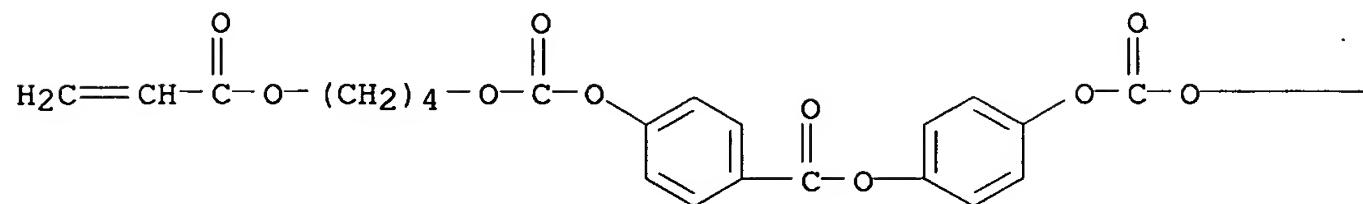
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CMF C31 H32 O10



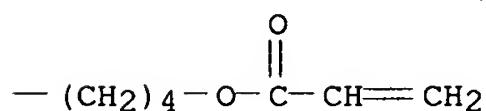
CM 3

CRN 187585-78-0  
CMF C29 H30 O12

PAGE 1-A



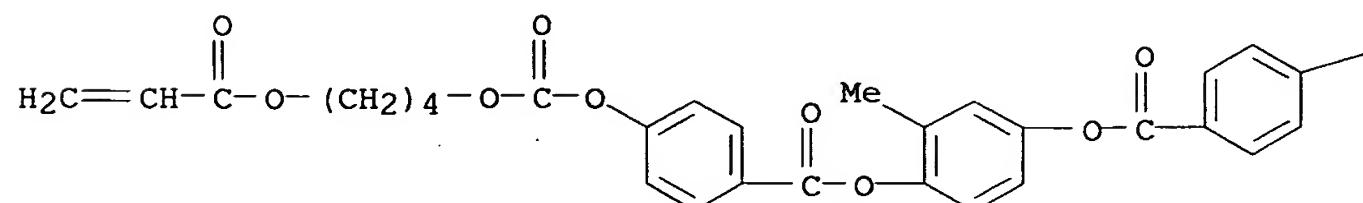
PAGE 1-B

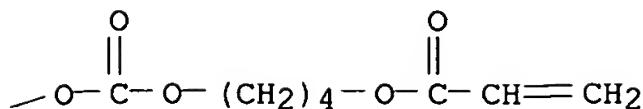


CM 4

CRN 187585-64-4  
CMF C37 H36 O14

PAGE 1-A



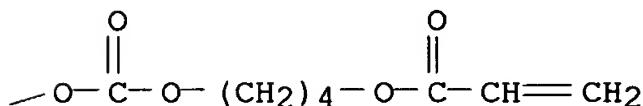
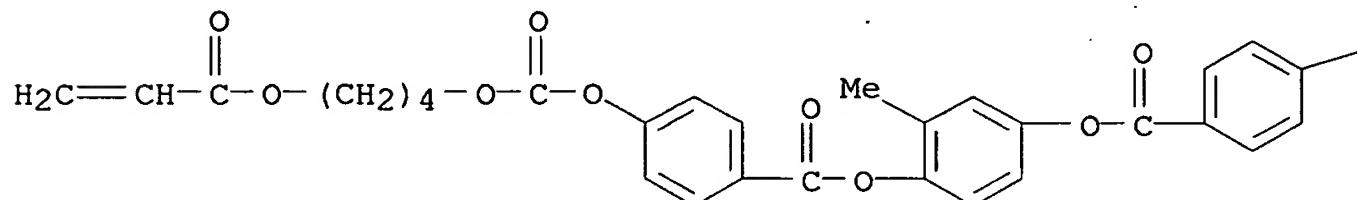


IT 187585-64-4

RL: TEM (Technical or engineered material use); USES (Uses)  
 (nematic compds. containing polymerizable mesogenic chiral  
 compds.)

RN 187585-64-4 CAPLUS

CN Benzoic acid, 4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]-,  
 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



L11 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:55473 CAPLUS

DOCUMENT NUMBER: 130:197051

TITLE: Synthesis of thermotropic biphenyl- and hydroquinone bisbenzoate-type polyesters with thioether spacers

AUTHOR(S): Aragon, E.; Milano, J. C.; Robert, J. M.; Vernet, J.-L.; Gallot, B.

CORPORATE SOURCE: Equipe d'accueil DRED 1356, Materiaux a Finalites Specifiques, Laboratoire de Chimie Appliquee. - I.S.I.T.V., Universite de Toulon et du Var, La Garde, 83957, Fr.

SOURCE: European Polymer Journal (1998), Volume Date 1999, 35(3), 385-393

CODEN: EUPJAG; ISSN: 0014-3057

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: French

AB Eight polyesters with a flexible thioether-type group were prepared through a Michael reaction between aromatic diacrylates and alkylenedithiols. The four polyesters having a 4,4'-biphenyldiyl mesogen group have the mesophase SmB<sub>1</sub>, whereas the four others which have a much longer mesogen group of a hydroquinone bisbenzoate type give rise to the nematic mesophase at a higher temperature

IT 123349-64-4P 123349-65-5P 123349-66-6P

123349-67-7P 220765-82-2P 220765-88-8P

220765-92-4P 220765-96-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation of thermotropic polyester-polythioethers by Michael  
polymerization)

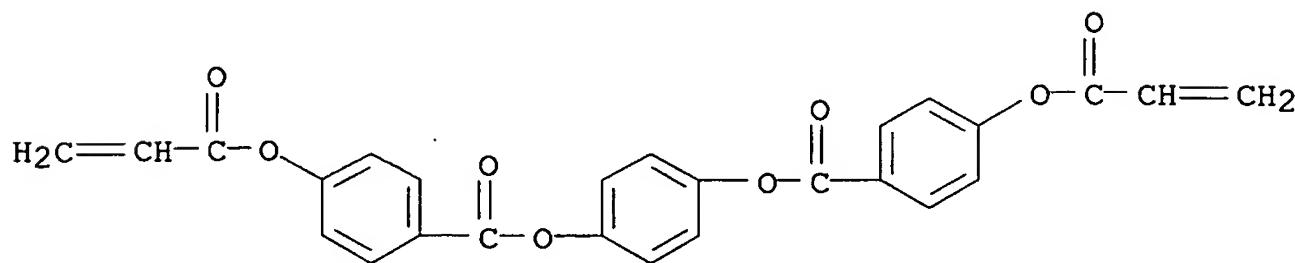
RN 123349-64-4 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer  
with 1,3-propanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 109-80-8

CMF C3 H8 S2

HS—CH<sub>2</sub>—CH<sub>2</sub>—CH<sub>2</sub>—SH

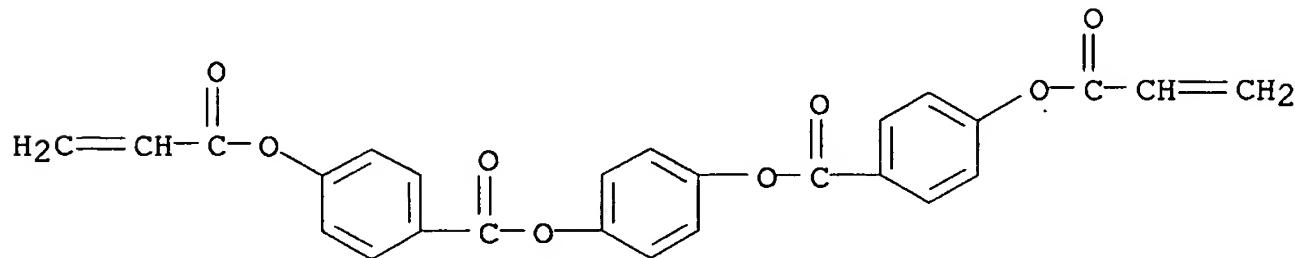
RN 123349-65-5 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer  
with 1,4-butanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-08-8

CMF C4 H10 S2

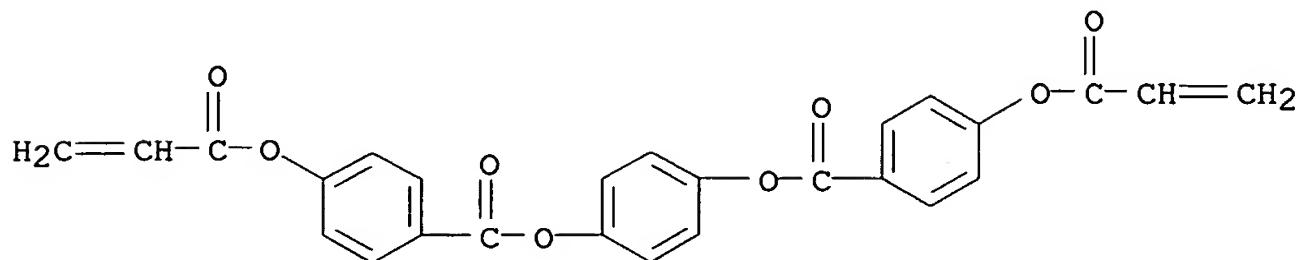
HS—(CH<sub>2</sub>)<sub>4</sub>—SH

RN 123349-66-6 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,5-pentanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9  
CMF C26 H18 O8



CM 2

CRN 928-98-3  
CMF C5 H12 S2

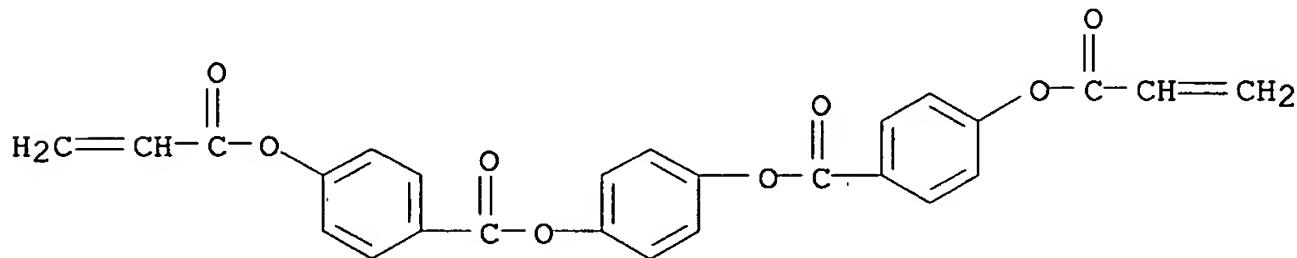
HS-(CH<sub>2</sub>)<sub>5</sub>-SH

RN 123349-67-7 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,6-hexanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9  
CMF C26 H18 O8



CM 2

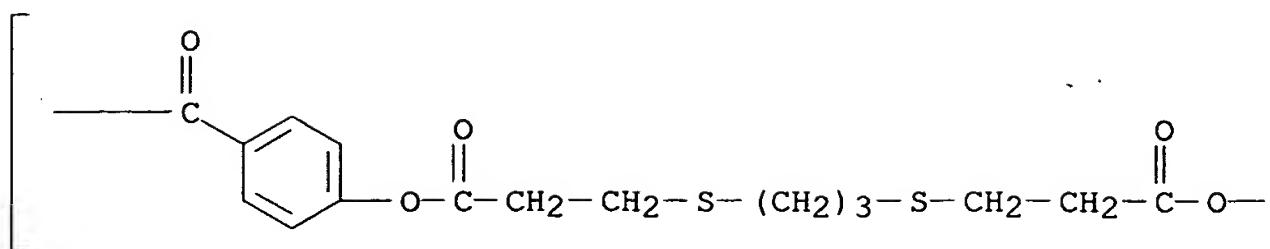
CRN 1191-43-1  
CMF C6 H14 S2

HS-(CH<sub>2</sub>)<sub>6</sub>-SH

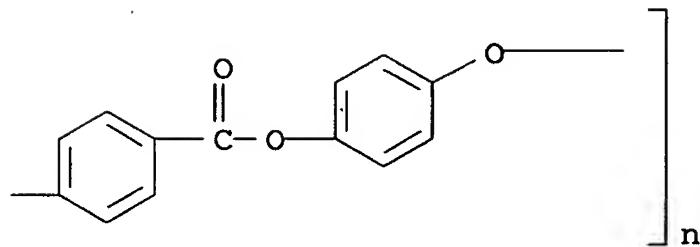
RN 220765-82-2 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,3-propanediylthio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



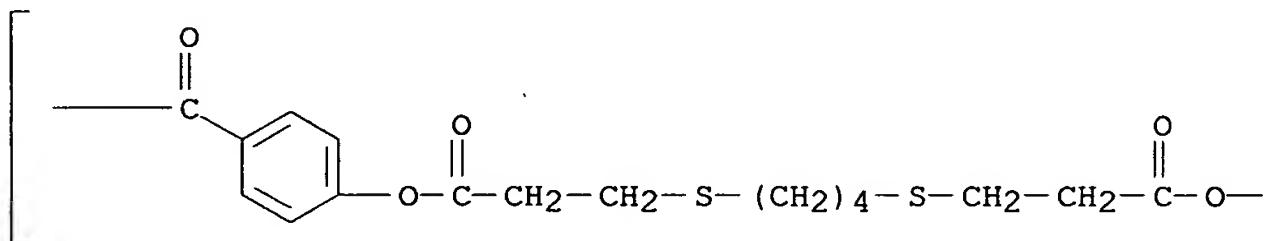
PAGE 1-B



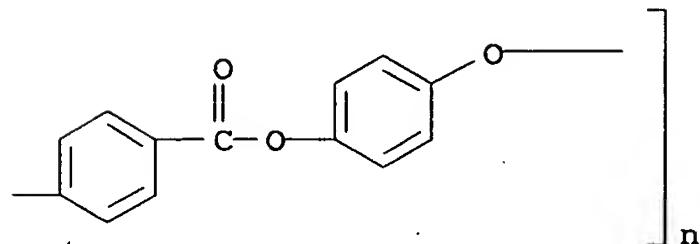
RN 220765-88-8 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,4-butanediylthio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



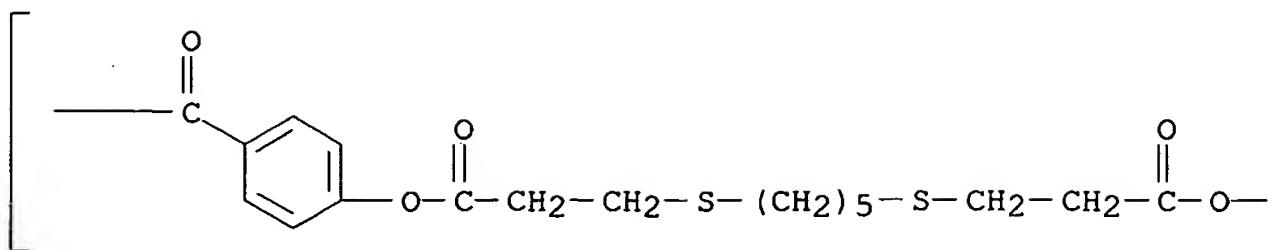
PAGE 1-B



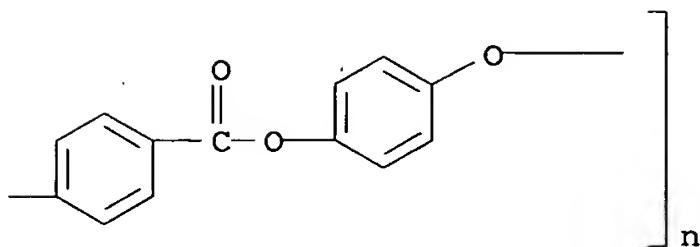
RN 220765-92-4 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,5-pentanediylythio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



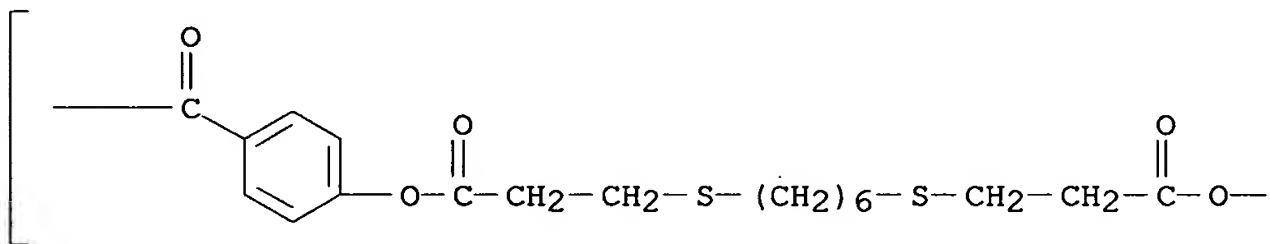
PAGE 1-B



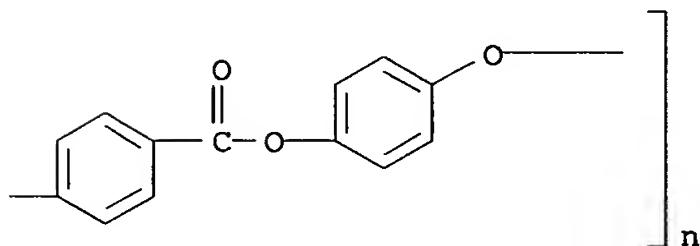
RN 220765-96-8 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,6-hexanediylylthio(3-oxo-1,3-propanediyl)oxy-1,4-phenylene carbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT:

38

THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:806570 CAPLUS

DOCUMENT NUMBER: 130:45611

TITLE: New polymerizable liquid crystalline compounds

INVENTOR(S): Benecke, Carsten; Lukac, Teodor; Ohlemacher, Angela

PATENT ASSIGNEE(S): Rolic A.-G., Germany

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

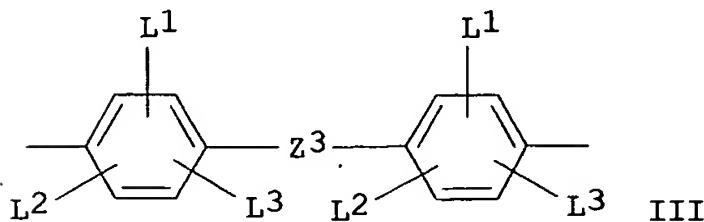
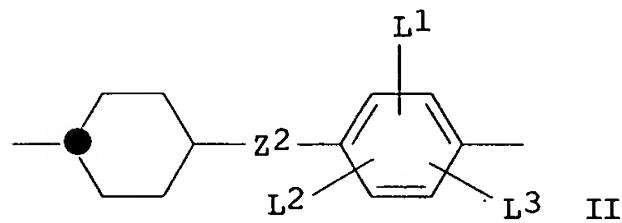
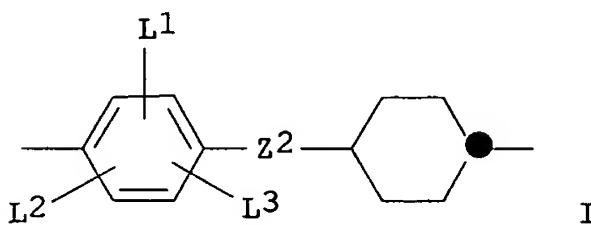
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|---|------|----------|-----------------|--------------|
| WO 9852905  | A1   | 19981126 | WO 1998-IB789   | 19980522 <-- |
| W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,<br>EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP,<br>KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ,<br>PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,<br>US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,<br>FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,<br>CM, GA, GN, ML, MR, NE, SN, TD, TG |      |          |                 |              |
| AU 9872276  | A    | 19981211 | AU 1998-72276   | 19980522 <-- |
| EP 983225   | A1   | 20000308 | EP 1998-919404  | 19980522 <-- |
| EP 983225   | B1   | 20031217 |                 |              |
| R: CH, DE, ES, FR, GB, IT, LI, NL, SE, FI   |      |          |                 |              |
| JP 2001527570   | T    | 20011225 | JP 1998-550182  | 19980522     |
| US 6395351  | B1   | 20020528 | US 1999-443214  | 19991119     |
| HK 1026195  | A1   | 20040423 | HK 2000-104492  | 20000720     |
| PRIORITY APPLN. INFO.:  |      |          | EP 1997-108259  | A 19970522   |
|   |      |          | WO 1998-IB789   | W 19980522   |

OTHER SOURCE(S): MARPAT 130:45611

GI



AB Compds. are claimed which are described by the general formula R-S1-A-Z1-B-S2-R (A and B are independent ring systems with the formulas I, II or III; in the trans-1,4-cyclohexylene ring, one or two nonadjacent CH<sub>2</sub> groups may be replaced by oxygen; in the 1,4-phenylene ring, one or two nonadjacent CH groups may be replaced by nitrogen; L1, L2, L3 are independently selected from hydrogen, C1-20 alkyl, C1-20 alkenyl, C1-20 alkyloxy, C1-20 alkyloxy carbonyl, formyl, C1-20 alkyl carbonyl, C1-20

alkyl carbonyloxy, halogen, cyano, or nitro groups; Z1-3 are independently selected from a single bond, -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>O-, -OCH<sub>2</sub>-, -COO-, -OOC-, -(CH<sub>2</sub>)<sub>4</sub>-, -O(CH<sub>2</sub>)<sub>3</sub>-, -(CH<sub>2</sub>)<sub>3</sub>O- or -C=C-; S1, S2 represent a spacer unit; and R represents crosslinkable groups, with the proviso that at least one of the ring systems A or B represents a ring system with the formulas I or II, Z1 or Z2 denoting a single bond). Use of mixts. containing the crosslinkable liquid crystals in their crosslinked condition for optical components, and optical components using the mixts. are also described.

IT 216880-27-2P, 4-(6-Acryloyloxyhexyloxy)benzoic acid  
4-[4-(6-acryloyloxyhexyloxy)benzoyloxy]-2-chlorophenyl ester-4-(6-acryloyloxyhexyloxy)benzoic acid 4-[4-(6-acryloyloxyhexyloxy)benzoyloxy]-2-methylphenyl ester-4-(6-acryloyloxyhexyloxy)benzoic acid, 4-[4-(6-acryloyloxyhexyloxy)benzoyloxy]-2-pentyloxycarbonylphenyl ester-4-(6-acryloyloxyhexyloxy)benzoic acid trans-4-[4-(6-acryloyloxyhexyloxy)benzoyloxy]cyclohexyl phenyl ester copolymer  
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(polymerizable liquid crystal compds. and devices using them)

RN 216880-27-2 CAPLUS

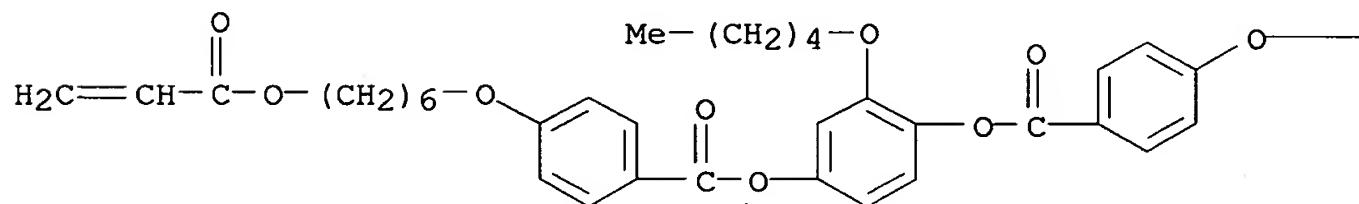
CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-1,4-phenylene ester, polymer with 2-methyl-1,4-phenylene bis[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoate], 4-[trans-4-[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]cyclohexyl]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and 2-(pentyloxy)-1,4-phenylene bis[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

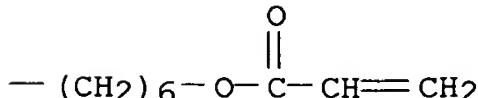
CRN 216880-26-1

CMF C43 H52 O11

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PAGE 1-B



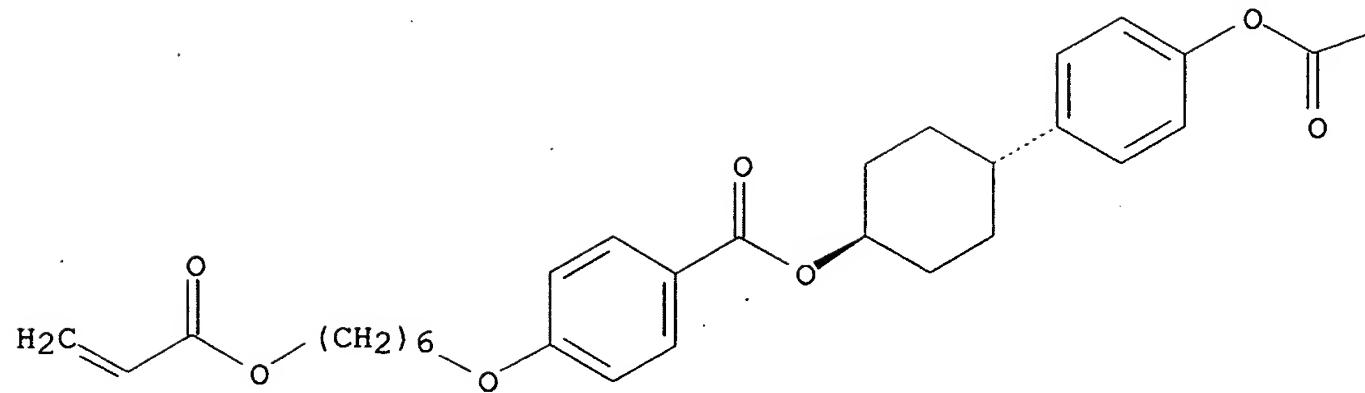
CM 2

CRN 216879-99-1

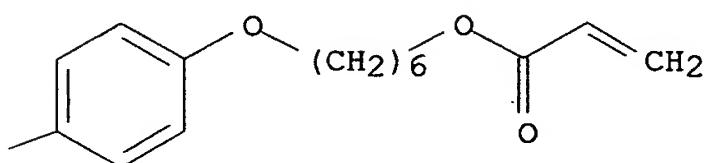
CMF C44 H52 O10

Relative stereochemistry.

PAGE 1-A



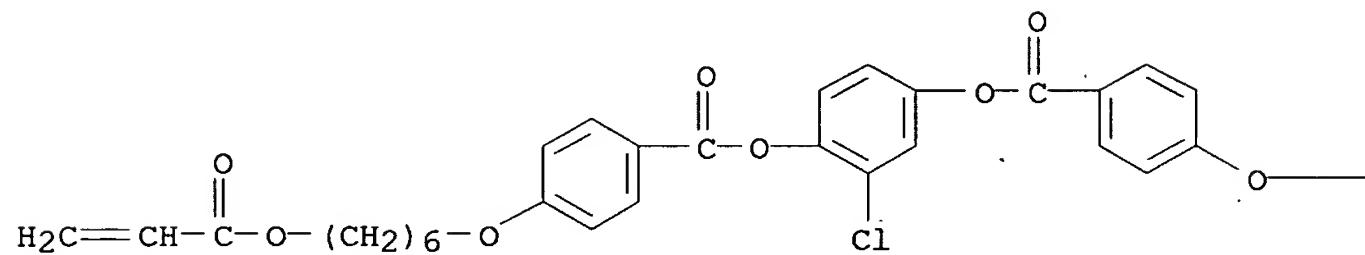
PAGE 1-B



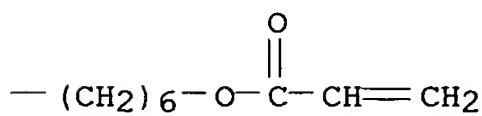
CM 3

CRN 150809-90-8  
CMF C38 H41 Cl O10

PAGE 1-A

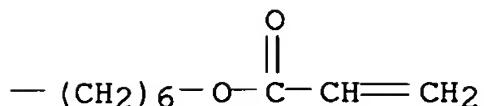
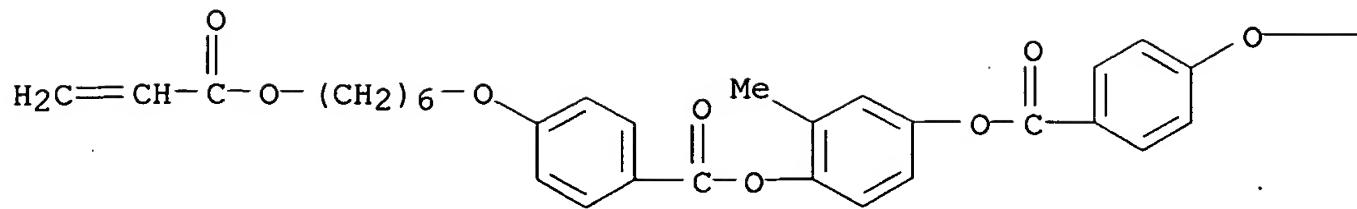


PAGE 1-B



CM 4

CRN 125248-71-7  
CMF C39 H44 O10



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1998:608948 CAPLUS  
 DOCUMENT NUMBER: 129:203403  
 TITLE: Thermochromic polymerizable mesogenic composition containing both chiral and achiral polymerizable mesogenic compounds and a photoinitiator, anisotropic polymers therefrom, and colored films  
 INVENTOR(S): Jolliffe, Emma Jane; Coates, David  
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany  
 SOURCE: Brit. UK Pat. Appl., 60 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE         |
|------------------------|------|----------|-----------------|--------------|
| GB 2315760             | A    | 19980211 | GB 1997-15766   | 19970725 <-- |
| GB 2315760             | B    | 20010110 |                 |              |
| US 6117920             | A    | 20000912 | US 1999-350993  | 19990712 <-- |
| US 6316066             | B1   | 20011113 | US 2000-522708  | 20000310     |
| PRIORITY APPLN. INFO.: |      |          |                 |              |
|                        |      |          | EP 1996-112001  | A 19960725   |
|                        |      |          | US 1997-900533  | B1 19970725  |
|                        |      |          | US 1999-350993  | A3 19990712  |

AB The title compns., optionally containing a dye, are useful for optical data storage, photomasks, decorative pigments, cosmetics, security applications, active/passive optical elements such as polarizers or retarders, color filters, scattering displays, or adhesives. Polymer films of different color are prepared by filling a liquid crystal mixture of CH<sub>2</sub>:CHCO<sub>2</sub>(CH<sub>2</sub>)<sub>6</sub>O-p-C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>-p-C<sub>6</sub>H<sub>9</sub>C<sub>3</sub>H<sub>7</sub> 16.5, CH<sub>2</sub>:CHCO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O-p-C<sub>6</sub>H<sub>4</sub>-CO<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>-p-C<sub>6</sub>H<sub>9</sub>C<sub>3</sub>H<sub>7</sub> 9.5, CH<sub>2</sub>:CHCCO<sub>2</sub>(CH<sub>2</sub>)<sub>6</sub>O-p-C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CH(Me)Et 45.0, CH<sub>2</sub>:CHCO<sub>2</sub>(CH<sub>2</sub>)<sub>6</sub>-p-C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>-p-C<sub>6</sub>H<sub>4</sub>CCH<sub>2</sub>CH(Me)Et 20.0, 1,4-[CH<sub>2</sub>:CHCO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O-p-C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>]<sub>2</sub>-3-MeC<sub>6</sub>H<sub>3</sub> 10.0% between two glass plates and exposing to UV light.

IT 212260-13-4P 212260-14-5P  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (thermochromic polymerizable mesogenic composition containing both

chiral and achiral polymerizable mesogenic compds. for  
anisotropic polymers used in preparing multi-color images)

RN 212260-13-4 CAPLUS

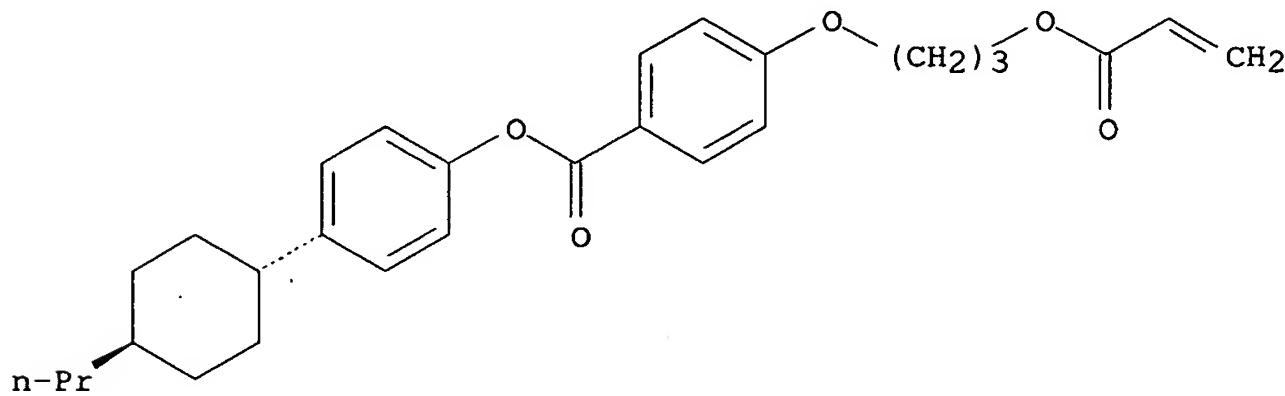
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,  
4'-(2-methylbutyl)[1,1'-biphenyl]-4-yl ester, polymer with  
4-(2-methylbutyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate,  
2-methyl-1,4-phenylene bis[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate],  
trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-  
propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl  
4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7

CMF C28 H34 O5

Relative stereochemistry.

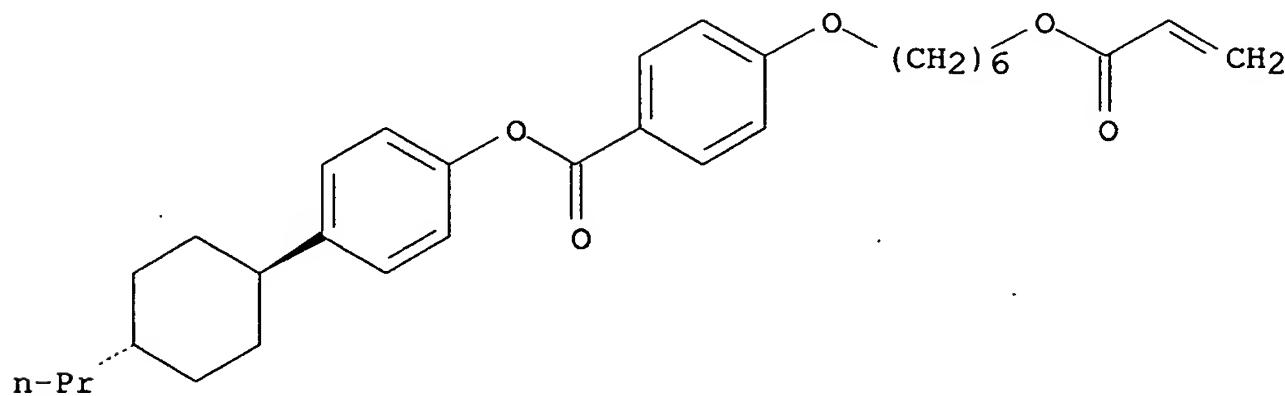


CM 2

CRN 182311-45-1

CMF C31 H40 O5

Relative stereochemistry.

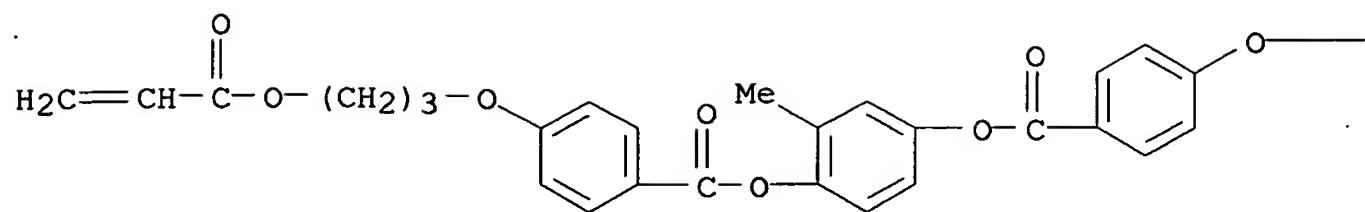


CM 3

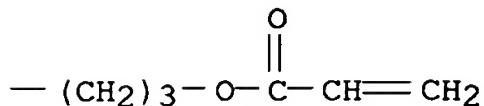
CRN 174063-87-7

CMF C33 H32 O10

PAGE 1-A

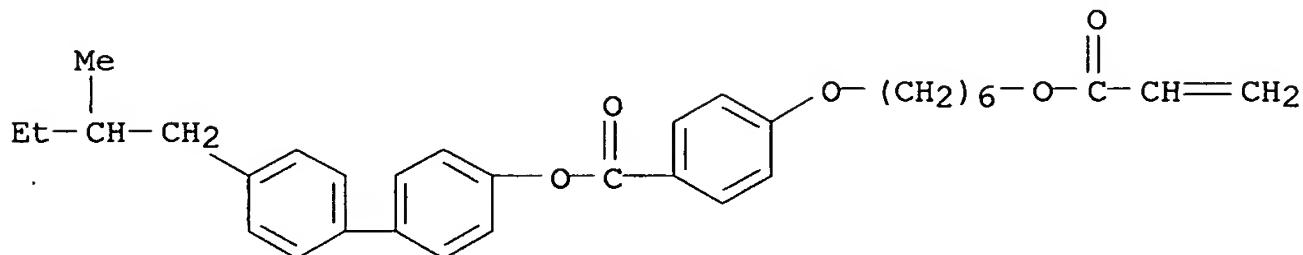


PAGE 1-B



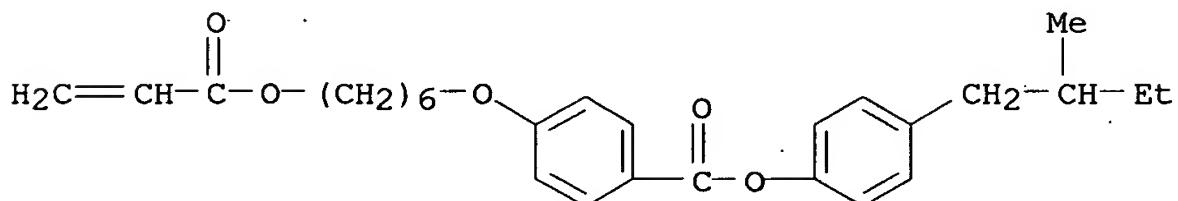
CM 4

CRN 168904-02-7  
CMF C33 H38 O5



CM 5

CRN 168903-96-6  
CMF C27 H34 O5



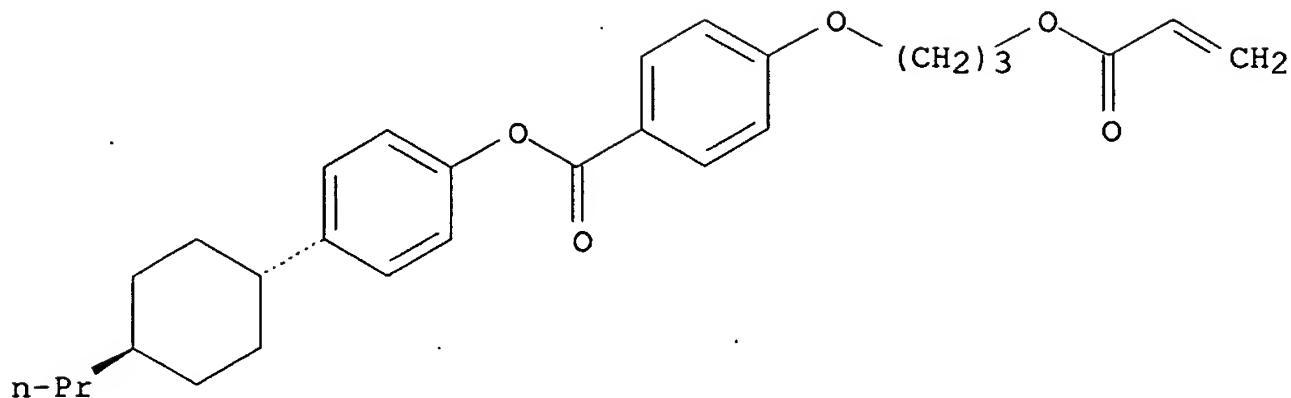
RN 212260-14-5 CAPLUS  
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,  
4'-(2-methylbutyl)[1,1'-biphenyl]-4-yl ester, polymer with  
4-(2-methylbutyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate,  
1,4-phenylene bis[4-[[11-[(1-oxo-2-propenyl)oxy]undecyl]oxy]benzoate],  
trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-  
propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl  
4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7

CMF C28 H34 O5

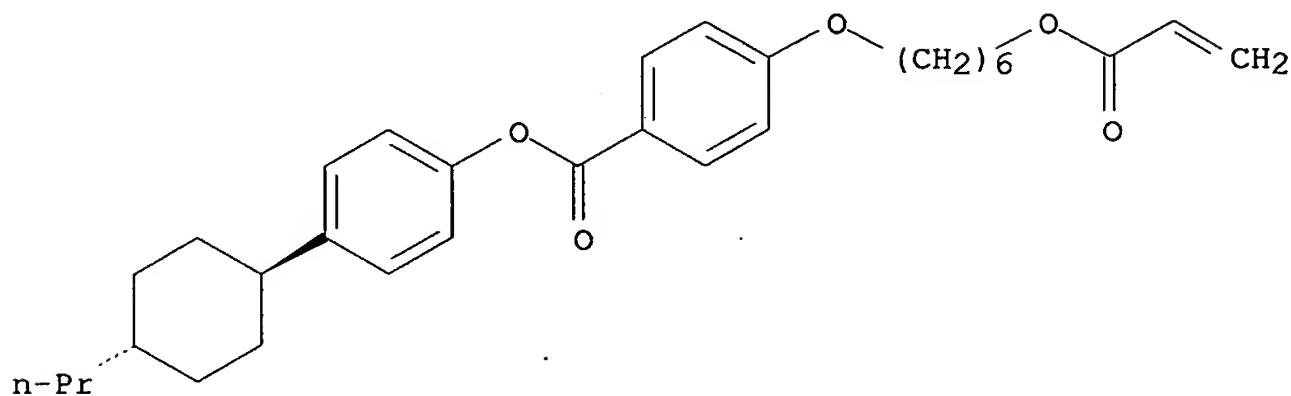
Relative stereochemistry.



CM 2

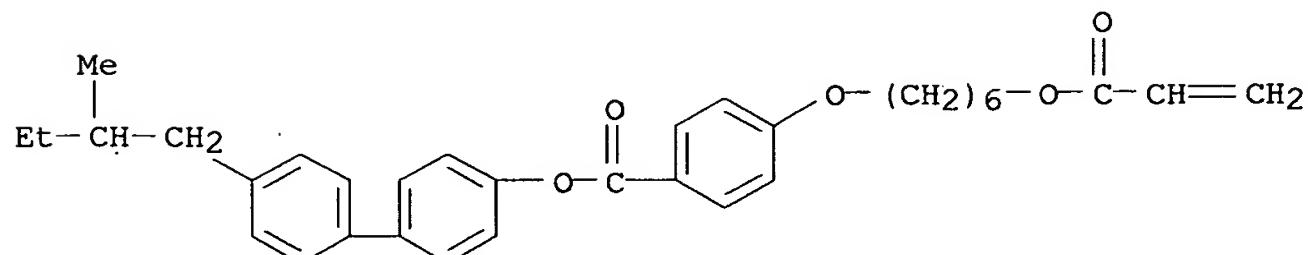
CRN 182311-45-1  
CMF C31 H40 O5

Relative stereochemistry.



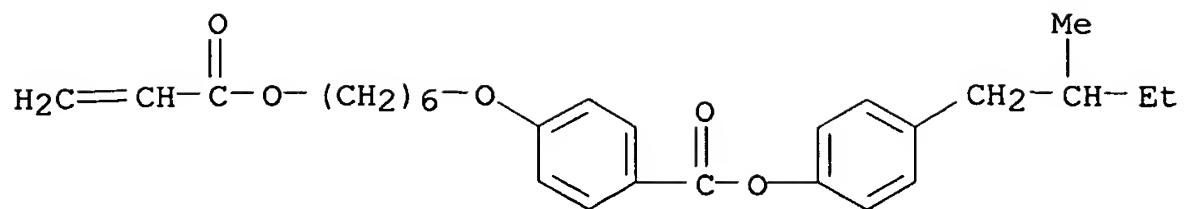
CM 3

CRN 168904-02-7  
CMF C33 H38 O5



CM 4

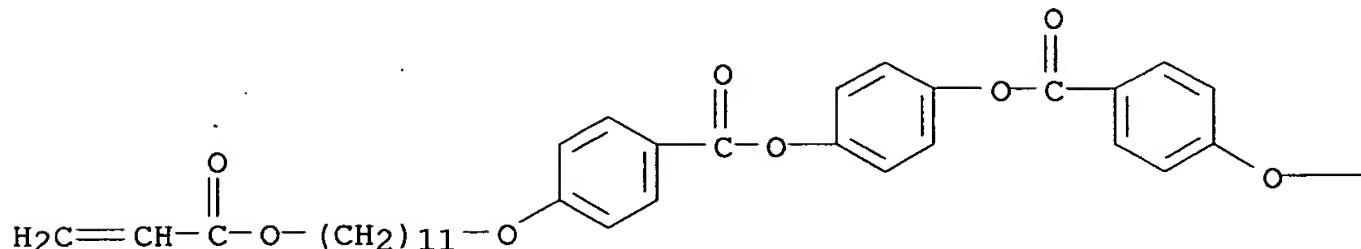
CRN 168903-96-6  
CMF C27 H34 O5



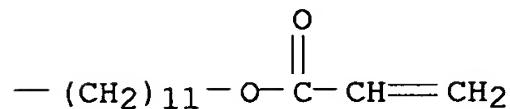
CM 5

CRN 132900-74-4  
CMF C48 H62 O10

PAGE 1-A



PAGE 1-B



L11 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:719750 CAPLUS

DOCUMENT NUMBER: 128:13876

TITLE: Method for manufacture of polymer-based optically anisotropic articles

INVENTOR(S): Uchiyama, Akihiko; Yatabe, Toshiaki

PATENT ASSIGNEE(S): Teijin Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE         |
|------------------------|------|----------|-----------------|--------------|
| JP 09281480            | A    | 19971031 | JP 1996-92501   | 19960415 <-- |
| PRIORITY APPLN. INFO.: |      |          | JP 1996-92501   | 19960415     |

AB The title articles such as compensation films for LCD devices are manufactured by coating a photocurable resin on a support surface and curing with light where a pair of processing plates is used. The pair of processing plates comprises at least 1 flexible plate and at least 1 plate which is transparent to the light that will be used in curing of the polymer. The plates have rubbed surfaces, on 1 of which a photocurable resin is coated, covered with another plate at a clearance determined by a spacer under the pressure of a rotating press roll, and irradiated with energy

light, e.g., UV light. A compensation film was prepared in this manner from a 50:50 mixture of 1-(p-acryloyloxyphenyl)-2-(p'-pentylphenyl)acetylene and 1-p-acryloyloxyphenyl-4-propylcyclohexane.

IT 123864-18-6

RL: DEV (Device component use); PRP (Properties); USES (Uses)  
(method for manufacture of polymer-based optically anisotropic articles such as compensation films of LCD device)

RN 123864-18-6 CAPLUS

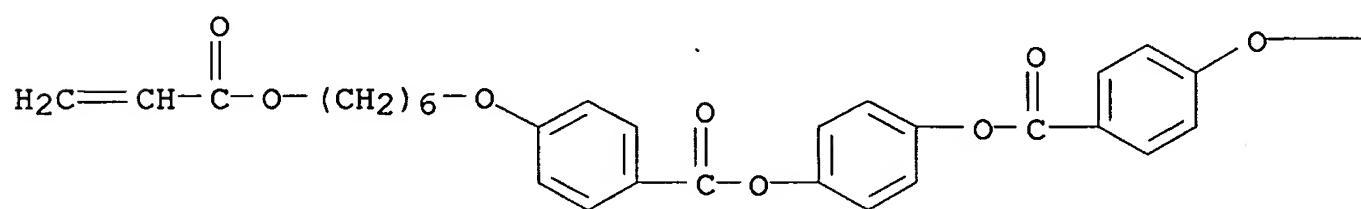
CN Benzoic acid, 4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

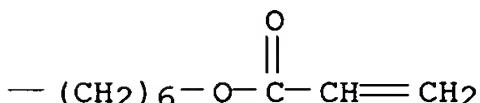
CRN 123864-17-5

CMF C38 H42 O10

PAGE 1-A



PAGE 1-B



L11 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:717513 CAPLUS

DOCUMENT NUMBER: 127:359657

TITLE: Manufacture of optically anisotropic plates

INVENTOR(S): Uchiyama, Akihiko; Yatabe, Toshiaki

PATENT ASSIGNEE(S): Teijin Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE        |
|------------------------|------|----------|-----------------|-------------|
| JP 09281331            | A    | 19971031 | JP 1996-92502   | 19960415 <- |
| PRIORITY APPLN. INFO.: |      |          | JP 1996-92502   | 19960415    |

AB Title plates, useful for liquid crystal displays, are prepared by coating polymerizable liquid crystal compound-containing compns. on one of a pair of orientation-treated base plates (at least one of which is a flexible plate), covering the uncoated plate on the coated plate along with spacers set in between the plates, roll-pressing, and thermally curing the compns. A SE 1180-treated glass plate, a SE 1180-treated X 12-2450 (acrylic resin)/Panlite C 1400 laminated plate, an alc. dispersion of Micropearl SP

204 (as spacers), and a peroxide-containing 1,4-phenylenebis[4-(6-acryloyloxy)hexyloxy]benzoate composition (curable at 130° for 15 min) were used to form a title plate showing 590-nm retardation 535 nm, 550-nm transparency 85%, and haze 0.6%.

IT 123864-18-6, Poly(1,4-phenylenebis[4-[6-acryloyloxy]hexyloxy]benzoate)

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (manufacture of optically anisotropic plates from flexible base plates and thermosetting liquid crystal polymers)

RN 123864-18-6 CAPLUS

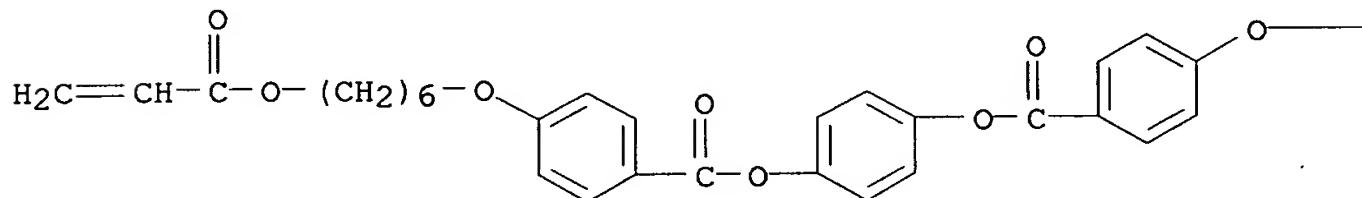
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

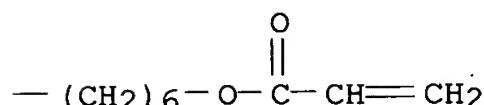
CRN 123864-17-5

CMF C38 H42 O10

PAGE 1-A



PAGE 1-B



L11 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:640635 CAPLUS

DOCUMENT NUMBER: 127:293779

TITLE: Reactive liquid crystal compounds

INVENTOR(S): Coates, David; Greenfield, Simon; Jolliffe, Emma; Hassall, Ian Victor; May, Alison

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany; Coates, David; Greenfield, Simon; Jolliffe, Emma; Hassall, Ian Victor; May, Alison

SOURCE: PCT Int. Appl., 33 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

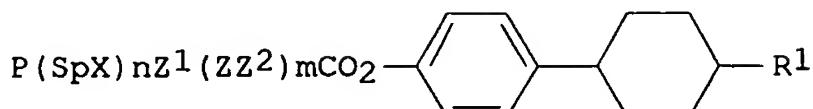
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

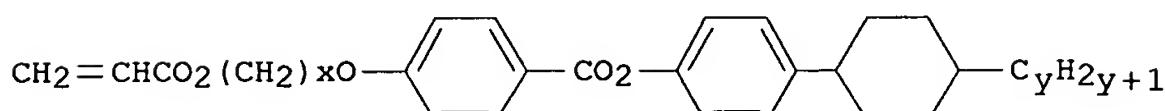
| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|--|------|----------|-----------------|--------------|
| WO 9734862   | A1   | 19970925 | WO 1997-EP843   | 19970221 <-- |
| W: JP, US  |      |          |                 |              |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE |      |          |                 |              |
| EP 888281  | A1   | 19990107 | EP 1997-906107  | 19970221 <-- |

EP 888281 B1 20010502  
 R: DE, FR, GB, IT  
 JP 2000507932 T 20000627 JP 1997-533070 19970221 <--  
 US 6344154 B1 20020205 US 2000-563903 20000504  
 PRIORITY APPLN. INFO.: EP 1996-104330 A 19960319  
 US 1997-117787 B3 19970221  
 WO 1997-EP843 W 19970221

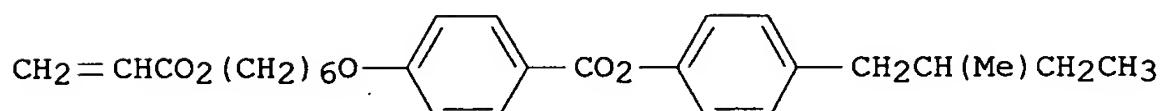
OTHER SOURCE(S): MARPAT 127:293779  
 GI



I



II



III

**AB** The invention relates to reactive liquid crystal compds. [I; P = CH<sub>2</sub>:CRCO<sub>2</sub>, RCH:CHO, oxiranyl, etc.; R = H, Me, Cl; Sp = C1-20-atom spacer; X = O, S, CO, CO<sub>2</sub>, bond, etc.; R<sub>1</sub> = (un)substituted, (O-, S-, NH-, etc.,-interrupted) C≤20 radical, halo, cyano, etc.; Z = OCO, CO<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, CH:CH, etc.; Z<sub>1</sub>, Z<sub>2</sub> = 1,4-C<sub>6</sub>H<sub>4</sub>, 1,4-cyclohexylene, naphthalene-1,2-diyl, etc.; m, n = 0, 1], to compns. comprising I, to linear or crosslinked (co)polymers obtainable by (co)polymerizing I or I-containing compns. and to the use of I or I-containing compns. for the preparation of linear or crosslinked polymers or polymer films for decorative pigments, cosmetics or security applications, active and passive optical elements, color filters, scattering displays, adhesives or synthetic resins with anisotropic mech. properties. For example, a mixture of acryloyloxyhexyloxybenzoate ester II (x = 6, y = 3) 27, acryloyloxypropoxybenzoate ester II (x = 3, y = 3) 18, and compound III 55% which melts below room temperature exhibits mesophase behavior: smectic phase A 24.4°-cholesteric phase 67°-isotropic phase. The mixture was UV-cured at 35° between 2 glass slides to give a cholesteric copolymer with Tg 1.8° and a reflection wavelength of 549 nm.

**IT** 125248-71-7 174063-87-7

RL: PRP (Properties); TEM (Technical or engineered material use); USES'

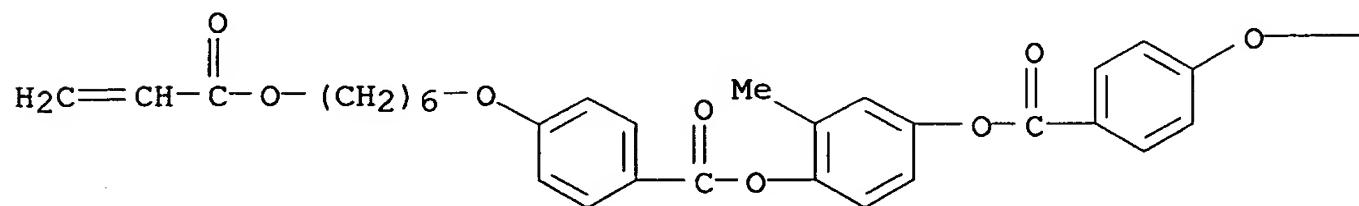
(Uses)

(alkylcyclohexylphenyl acryloyloxyalkoxybenzoate esters and related reactive liquid crystals, their mixts. and polymers)

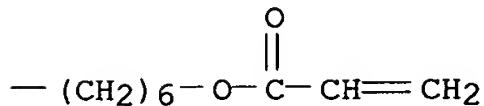
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



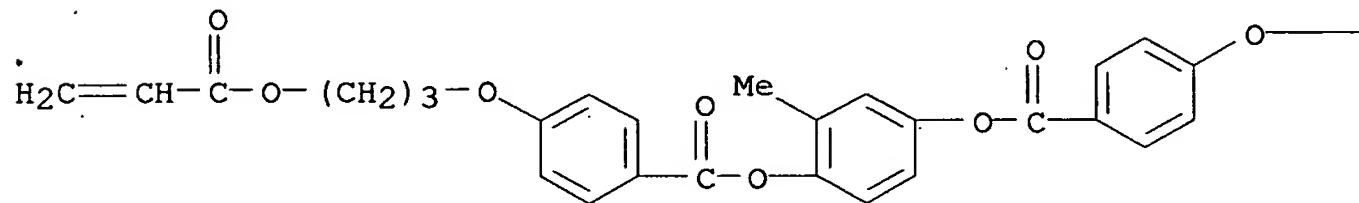
PAGE 1-B



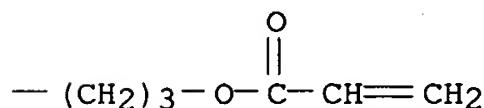
RN 174063-87-7 CAPLUS

CN Benzoic acid, 4-[3-[(1-oxo-2-propenyl)oxy]propoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 196881-79-5 196881-80-8

RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)

(film; alkylcyclohexylphenyl acryloyloxyalkoxybenzoate esters and related reactive liquid crystals, their mixts. and polymers)

RN 196881-79-5 CAPLUS

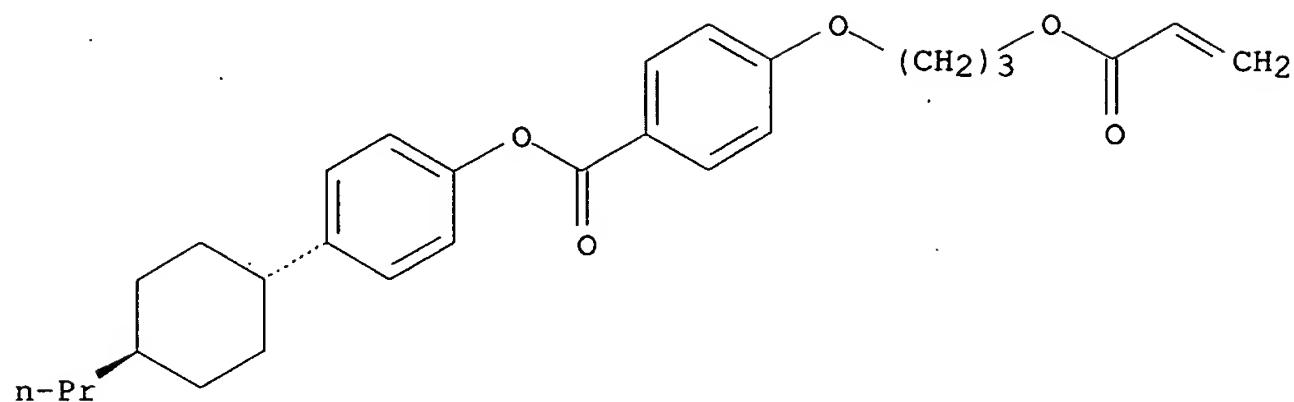
CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-(2-methylbutyl)phenyl ester, polymer with 2-methyl-1,4-phenylene bis[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate], trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl 4-[3-[(1-oxo-2-

propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7  
CMF C28 H34 O5

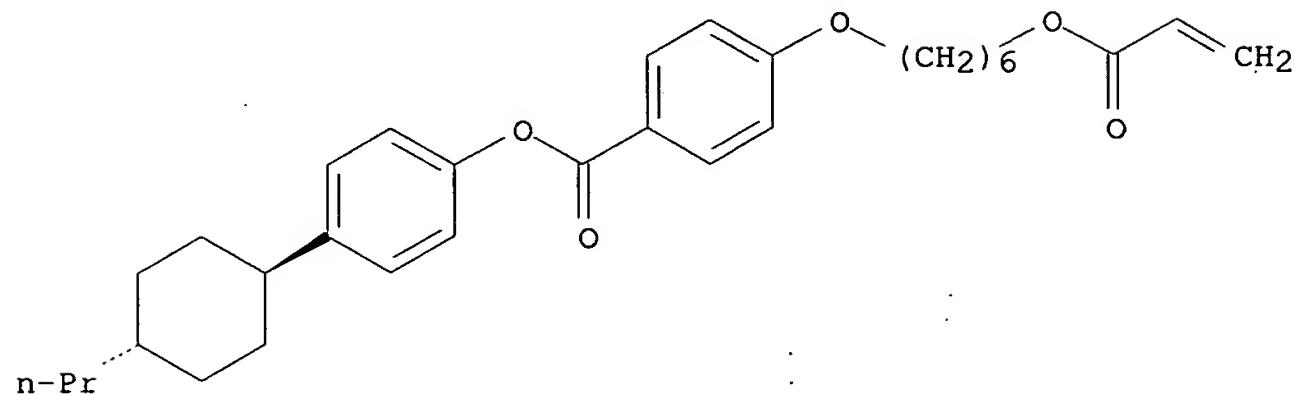
Relative stereochemistry.



CM 2

CRN 182311-45-1  
CMF C31 H40 O5

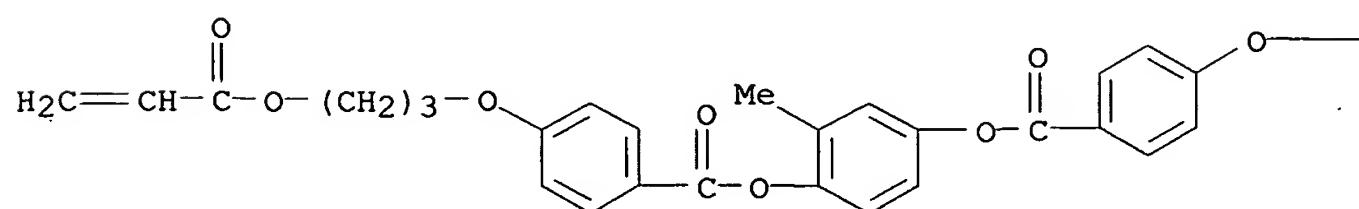
Relative stereochemistry.

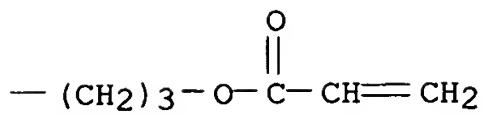


CM 3

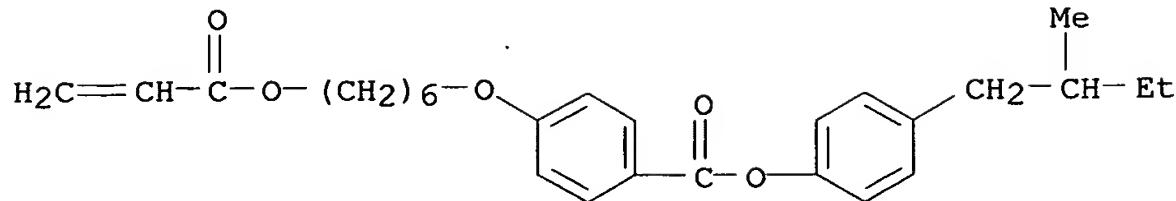
CRN 174063-87-7  
CMF C33 H32 O10

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CM 4

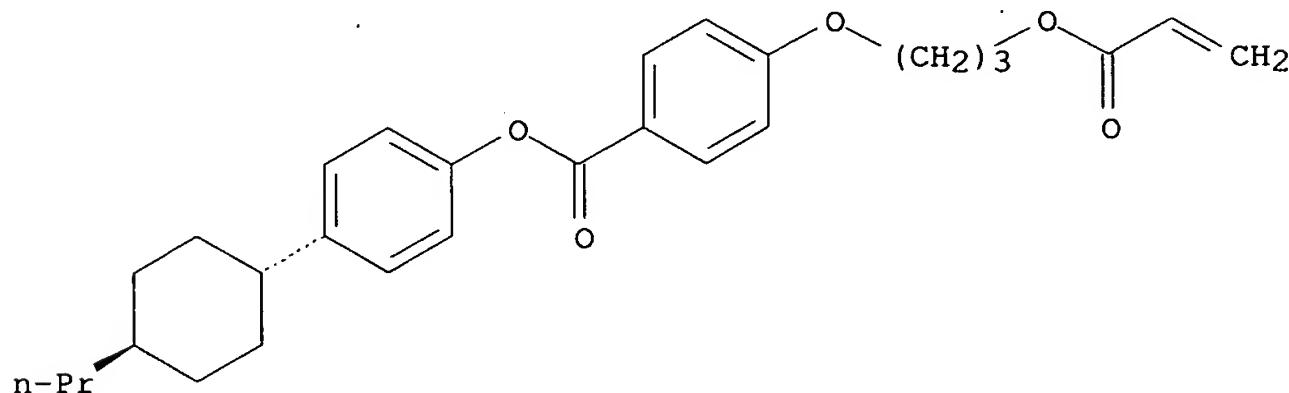
CRN 168903-96-6  
CMF C27 H34 O5

RN 196881-80-8 CAPLUS  
 CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,  
 2-methyl-1,4-phenylene ester, polymer with 2-methyl-1,4-phenylene  
 bis[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate], trans-4-(4-  
 propylcyclohexyl)phenyl 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate  
 and trans-4-(4-propylcyclohexyl)phenyl 4-[3-[(1-oxo-2-  
 propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7  
CMF C28 H34 O5

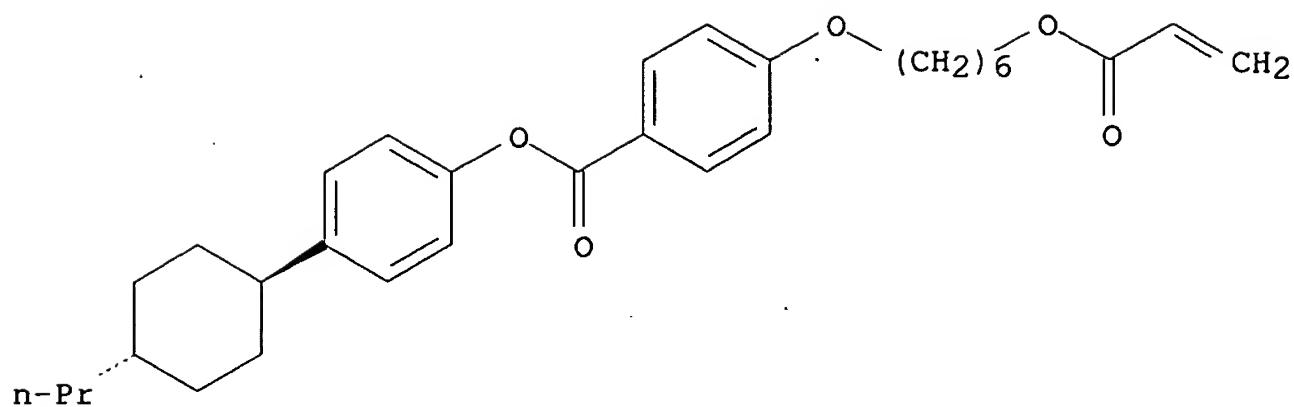
Relative stereochemistry.



CM 2

CRN 182311-45-1  
CMF C31 H40 O5

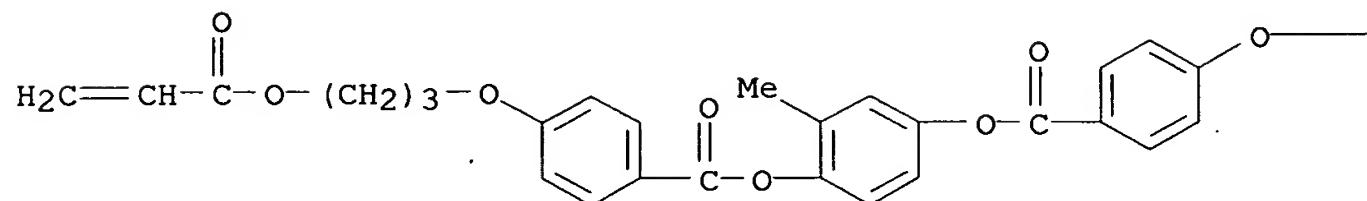
Relative stereochemistry.



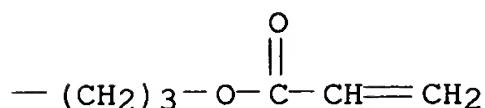
CM 3

CRN 174063-87-7  
CMF C33 H32 O10

PAGE 1-A



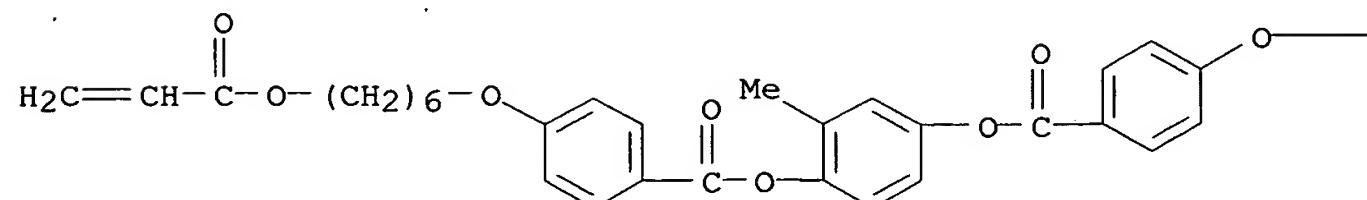
PAGE 1-B

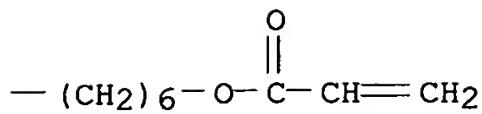


CM 4

CRN 125248-71-7  
CMF C39 H44 O10

PAGE 1-A





L11 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:107370 CAPLUS  
 DOCUMENT NUMBER: 126:119059  
 TITLE: Photocrosslinkable liquid-crystalline dyes and their use  
 INVENTOR(S): Kelly, Stephen  
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.  
 SOURCE: Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.                    | KIND | DATE     | APPLICATION NO. | DATE         |
|-------------------------------|------|----------|-----------------|--------------|
| EP 748852                     | A2   | 19961218 | EP 1996-108308  | 19960524 <-- |
| EP 748852                     | A3   | 19980429 |                 |              |
| EP 748852                     | B1   | 20011212 |                 |              |
| R: CH, DE, FR, GB, IT, LI, NL |      |          |                 |              |
| US 5707544                    | A    | 19980113 | US 1996-650241  | 19960520 <-- |
| JP 08333320                   | A    | 19961217 | JP 1996-139942  | 19960603 <-- |
| CN 1143665                    | A    | 19970226 | CN 1996-107987  | 19960605 <-- |
| CN 1136287                    | B    | 20040128 |                 |              |
| HK 1011039                    | A1   | 20020404 | HK 1998-112106  | 19981118     |
|                               |      |          | CH 1995-1663    | A 19950607   |

## PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 126:119059

AB The dyes are of the form A1C6H3A2A3-4,3 (A1, A2 = crosslinkable, mesogenic groups; A3 = dichroic group containing e.g., an azo or anthraquinone moiety) and in their crosslinked state have use as optical materials. Thus, 2,5-bis[4-[6-(acryloyloxy)hexyloxy]phenylcarboxy]benzoic acid was esterified with 6-[4-(4-nitrophenylazo)phenoxy]hexanol to give liquid-crystalline 6-[4-(4-nitrophenylazo)phenoxy]hexyl 2,5-bis[4-[6-(acryloyloxy)hexyloxy]phenylcarboxy]benzoate (I). I could be copolymerd. with pentyl 2,5-bis[4-[6-(acryloyloxy)hexyloxy]phenylcarboxy]benzoate in the presence of a photoinitiator using polarized light to provide a structured absorption filter.

IT 185993-59-3P 185993-60-6P 185993-61-7P  
 185993-62-8P 185993-63-9P 185993-64-0P  
 185993-65-1P 185993-66-2P 185993-67-3P  
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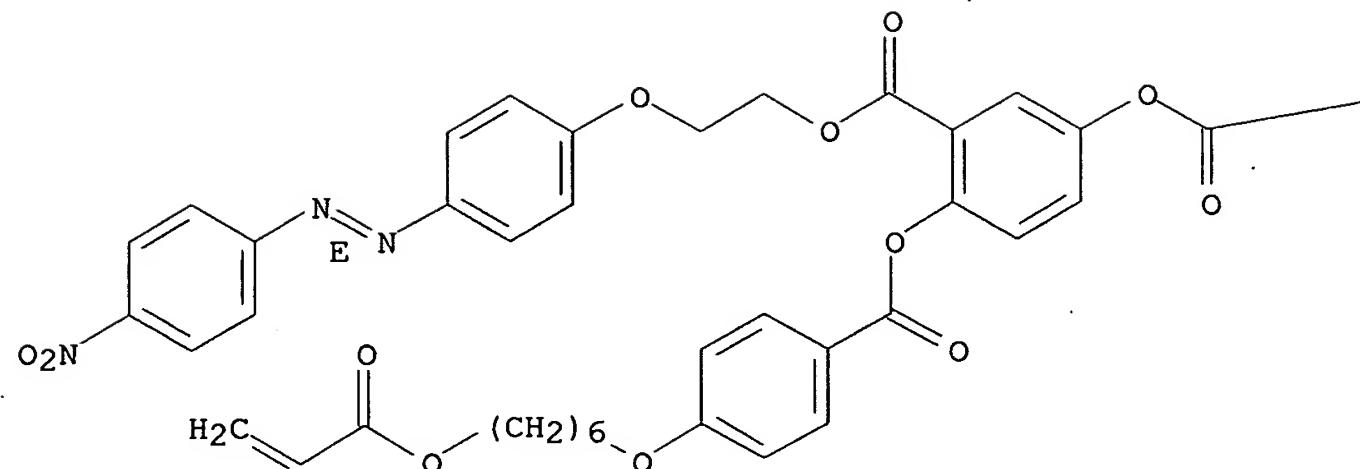
RL: IMF (Industrial manufacture); PREP (Preparation)  
 (photocrosslinkable liquid-crystalline dyes for optical materials)

RN 185993-59-3 CAPLUS

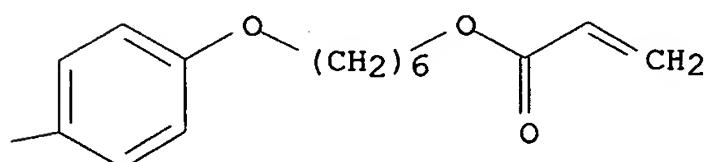
CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, 2-[4-(4-nitrophenyl)azo]phenoxyethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

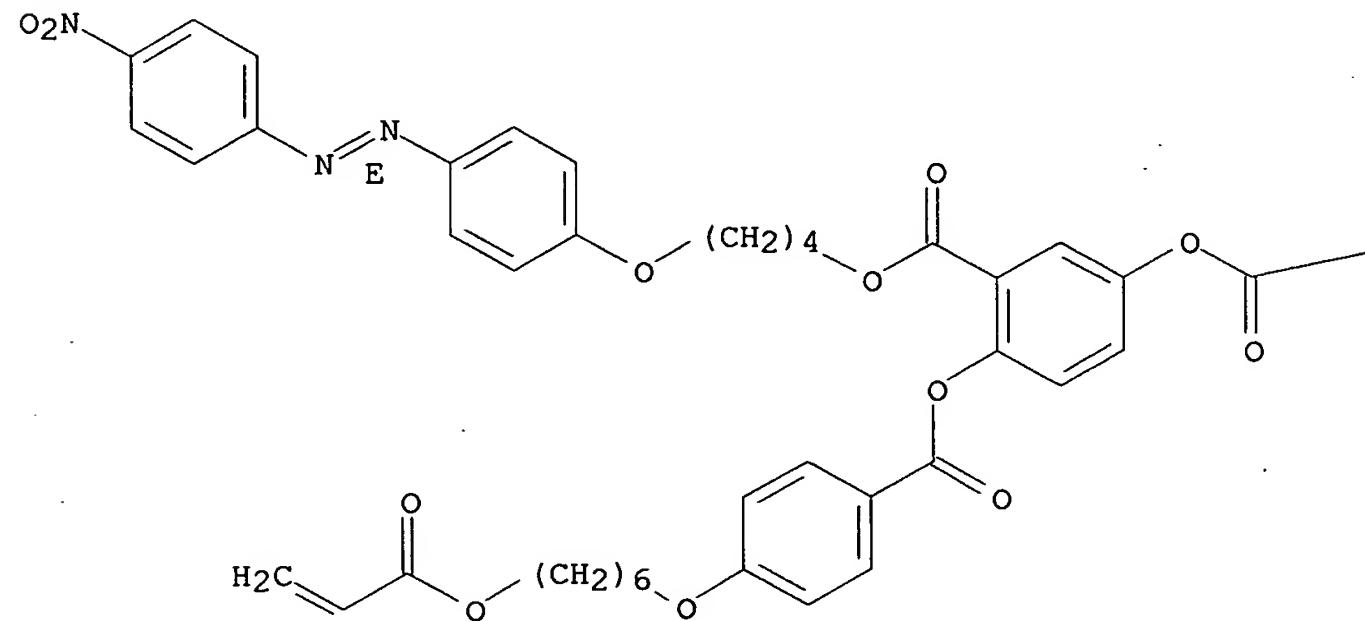


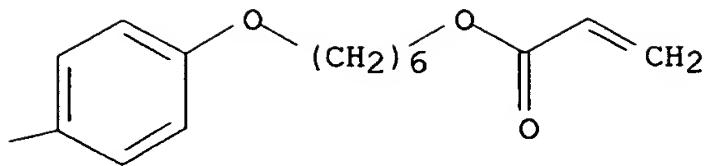
RN 185993-60-6 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 4-[4-[(4-nitrophenyl)azo]phenoxy]butyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

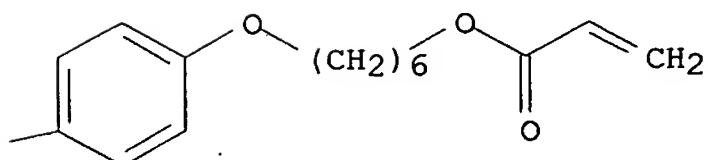
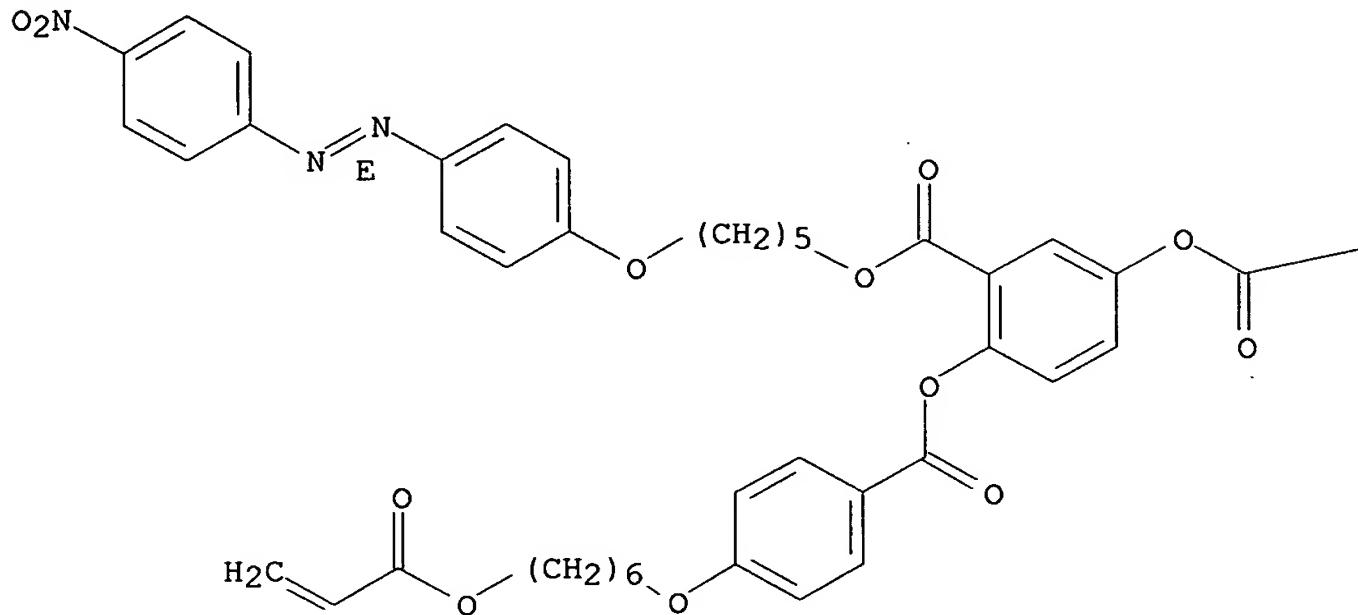




RN 185993-61-7 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 5-[4-[(4-nitrophenyl)azo]phenoxy]pentyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

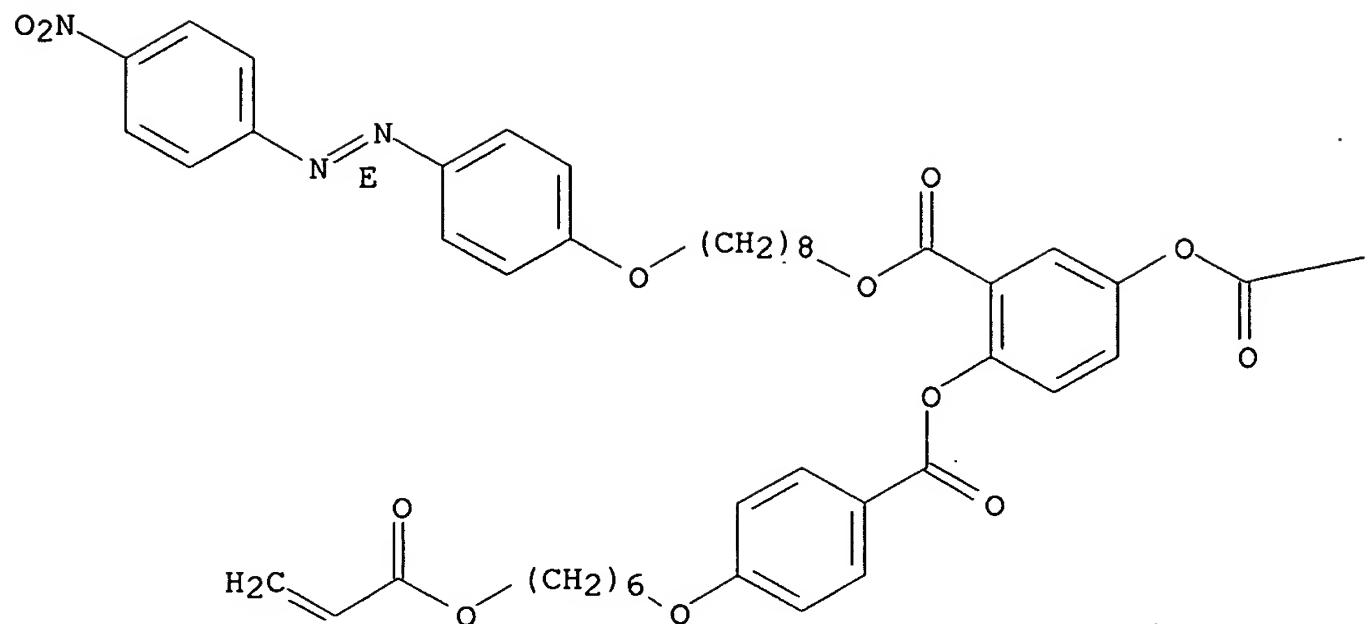


RN 185993-62-8 CAPLUS

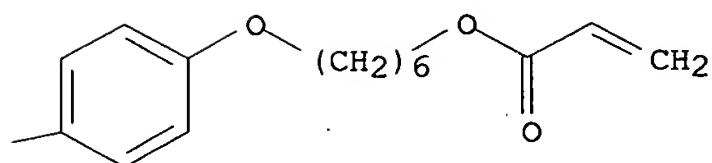
CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-[4-[(4-nitrophenyl)azo]phenoxy]octyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

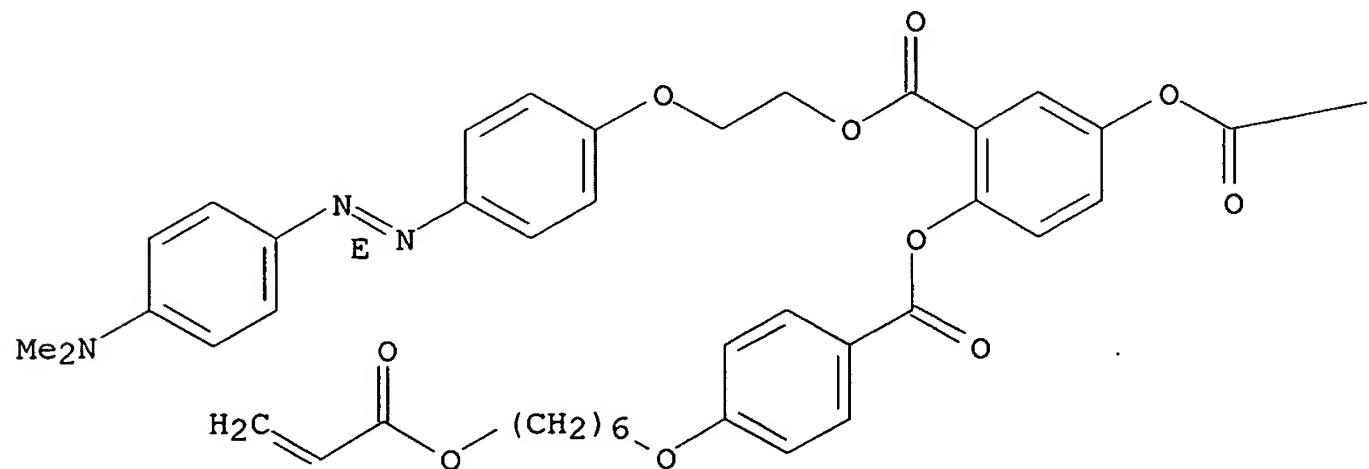


RN 185993-63-9 CAPLUS

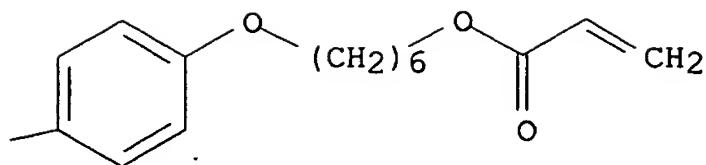
CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 2-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

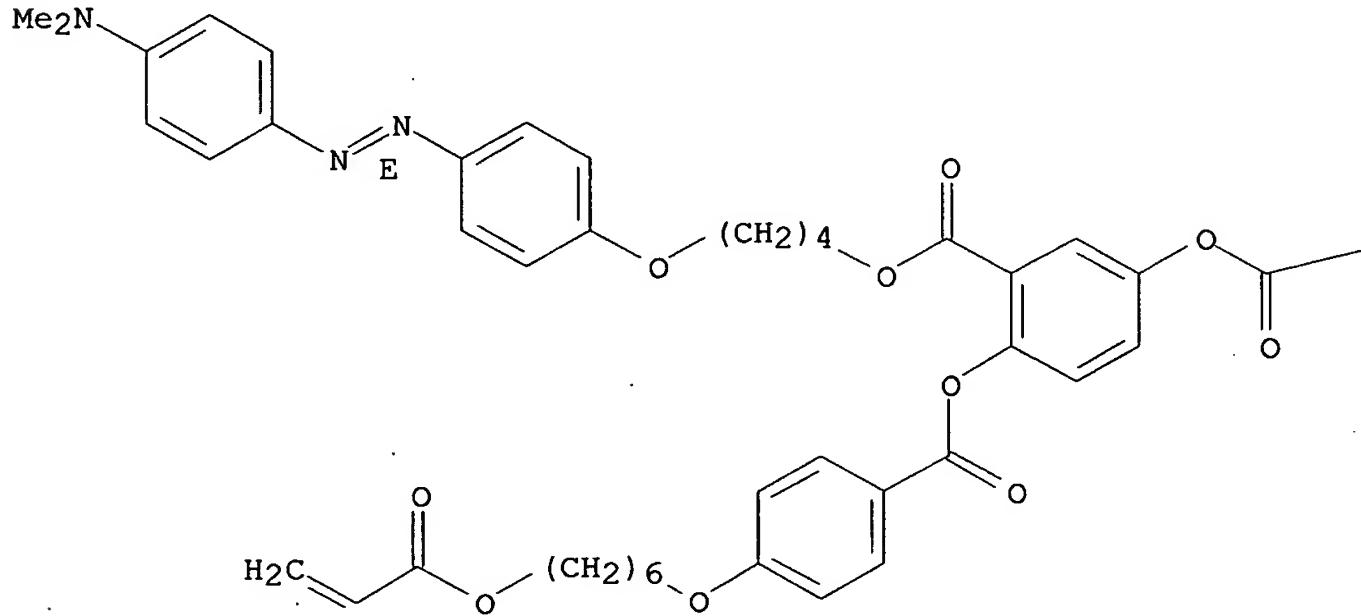


RN 185993-64-0 CAPLUS

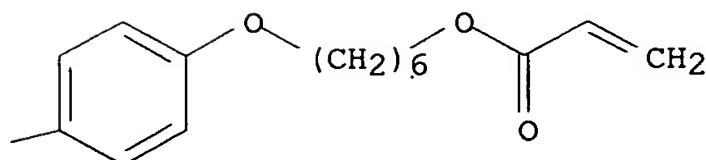
CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, 4-[4-[(4-(dimethylamino)phenyl)azo]phenoxy]butyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



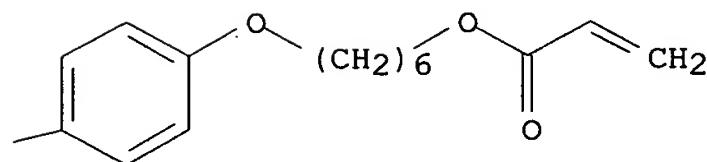
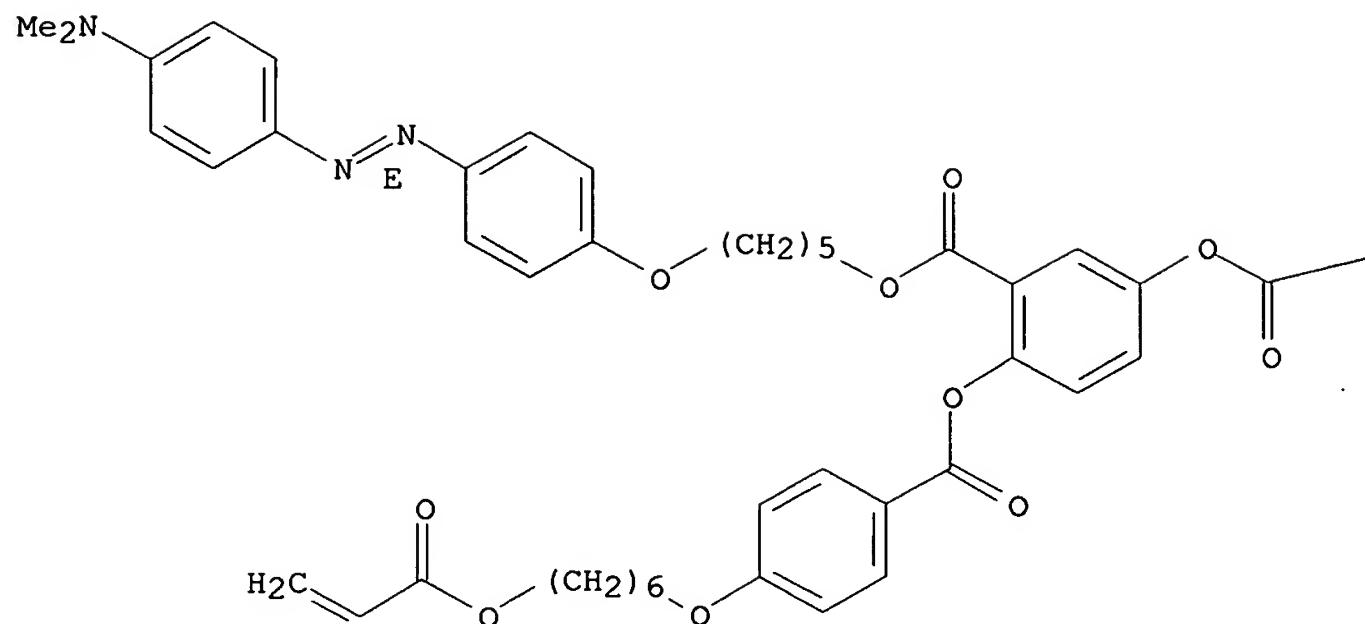
PAGE 1-B



RN 185993-65-1 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, 5-[4-[(4-(dimethylamino)phenyl)azo]phenoxy]pentyl ester, (E)- (9CI) (CA INDEX NAME)

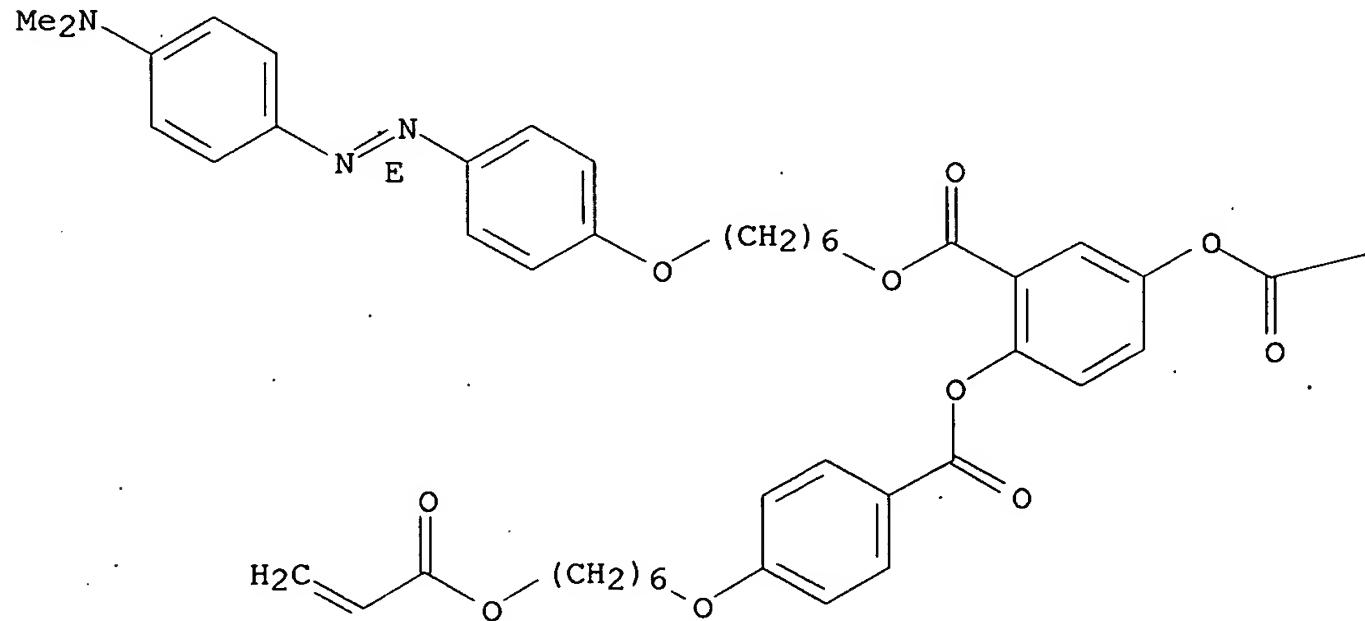
Double bond geometry as shown.



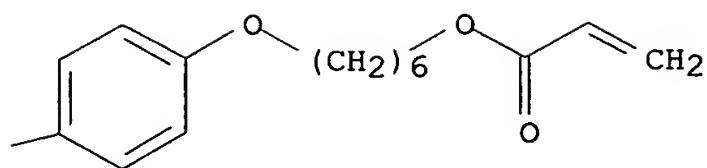
RN 185993-66-2 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 6-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]hexyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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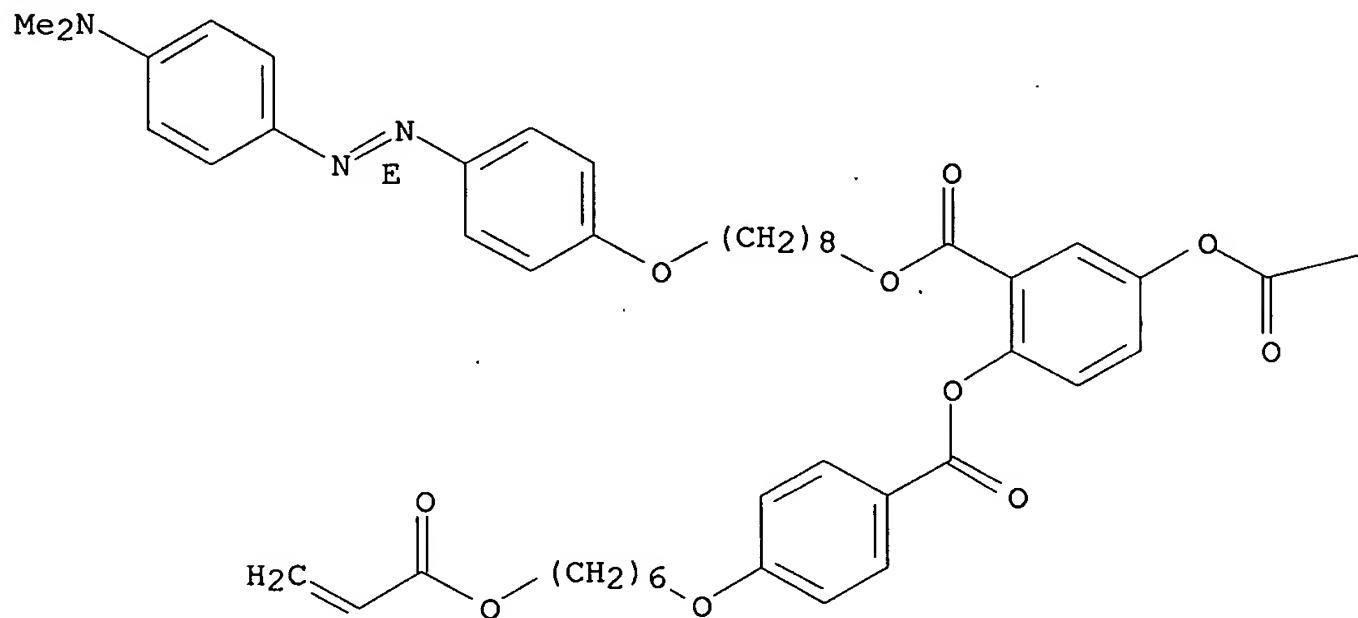


RN 185993-67-3 CAPLUS

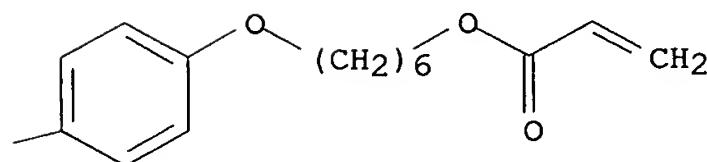
CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, 8-[[4-[(4-(dimethylamino)phenyl)azo]phenoxy]octyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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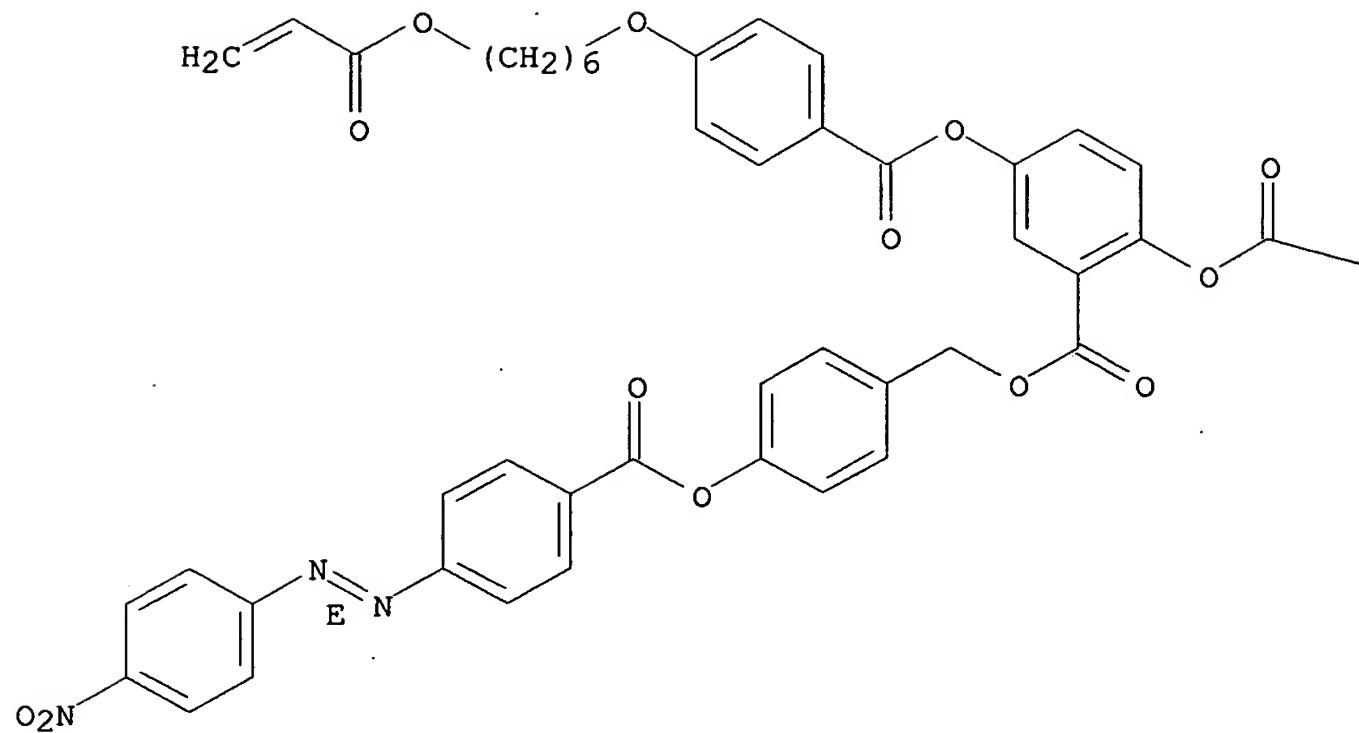


RN 185993-69-5 CAPLUS

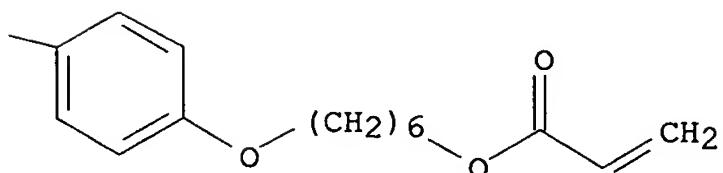
CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, [4-[[4-[(4-nitrophenyl)azo]benzoyl]oxy]phenyl]methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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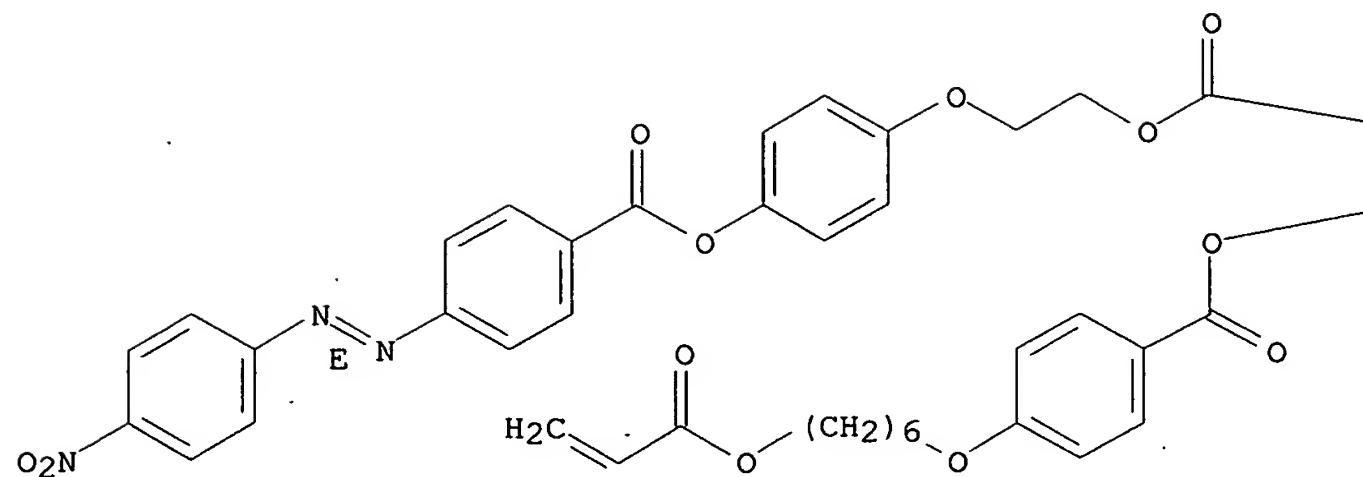
PAGE 1-B



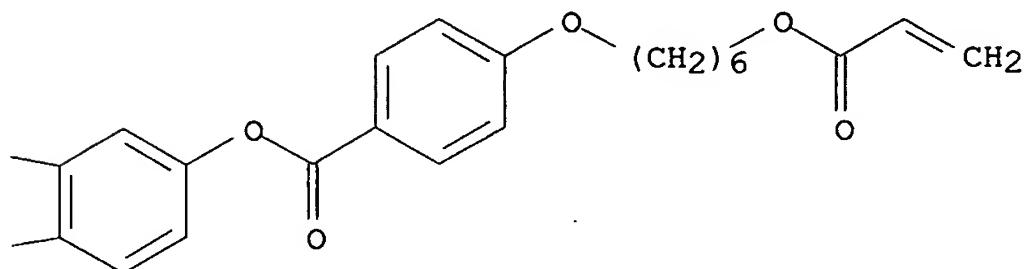
RN 185993-70-8 CAPLUS  
CN Benzoic acid, 2,5-bis[[4-[[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-  
, 2-[4-[[4-[(4-nitrophenyl)azo]benzoyl]oxy]phenoxy]ethyl ester, (E)- (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.

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RN 185993-73-1 CAPLUS

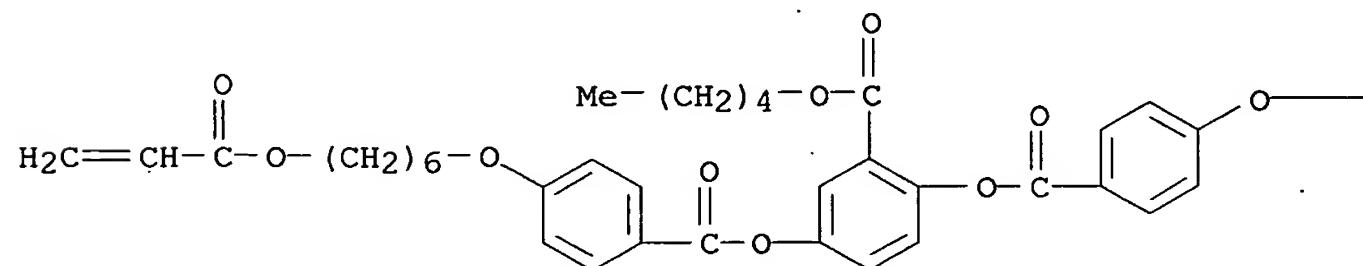
CN Benzoic acid, 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]-, 6-[4-[(4-nitrophenyl)azo]phenoxy]hexyl ester, (E)-, polymer with pentyl 2,5-bis[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]benzoate (9CI)  
(CA INDEX NAME)

CM 1

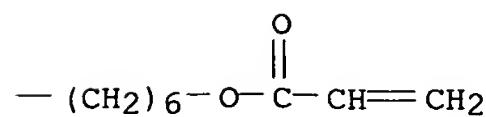
CRN 185993-72-0

CMF C44 H52 O12

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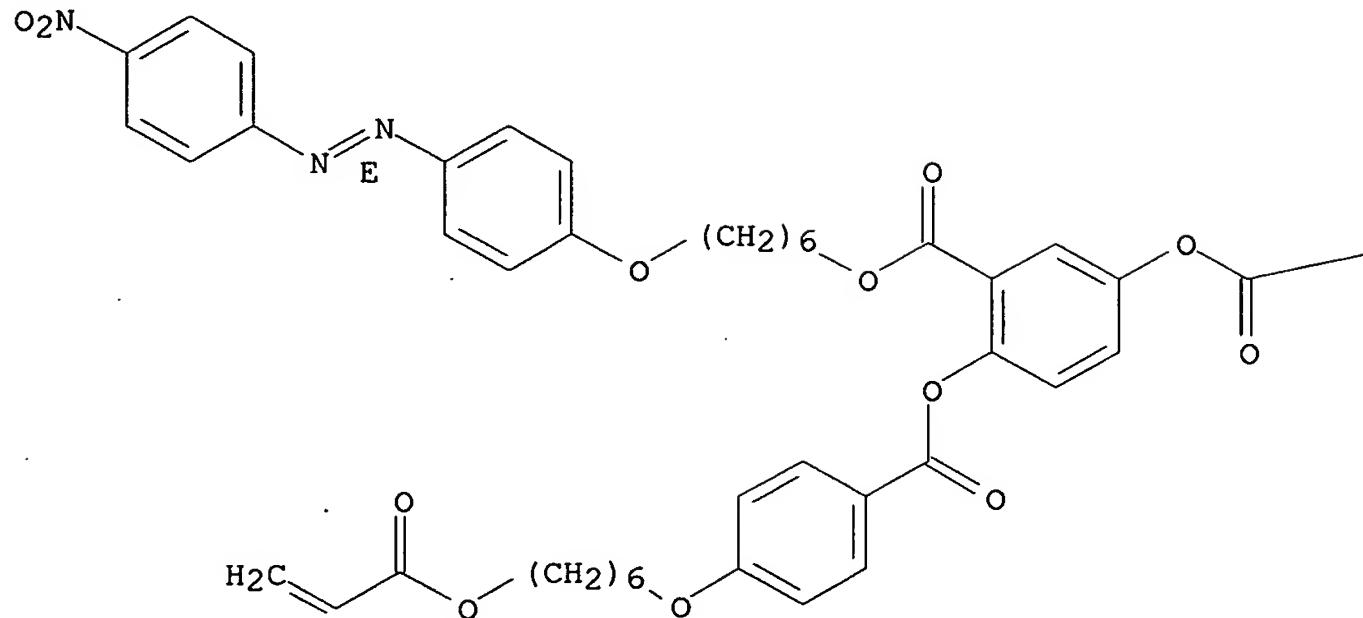


CM 2

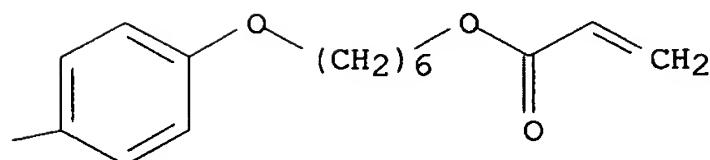
CRN 185993-58-2  
CMF C57 H61 N3 O15

Double bond geometry as shown.

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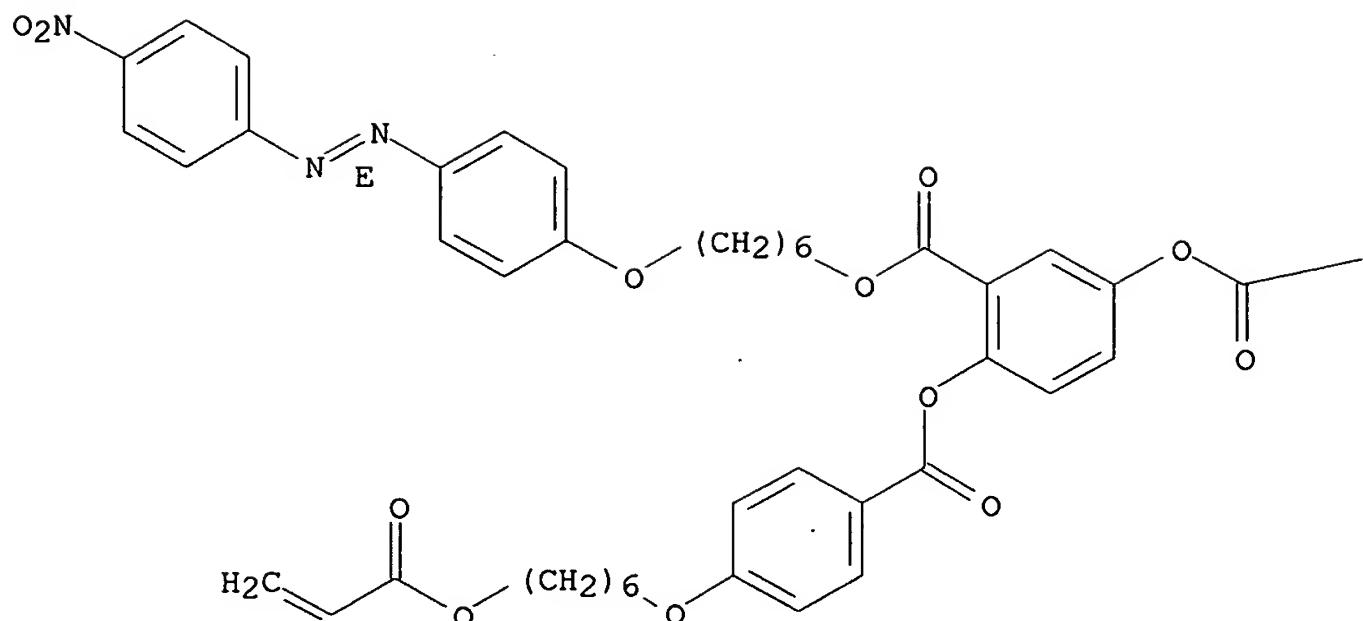
PAGE 1-B



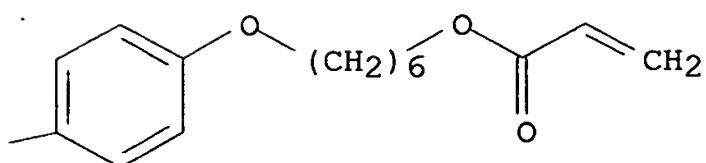
IT 185993-58-2P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
(Reactant or reagent)  
(photocrosslinkable liquid-crystalline dyes for optical materials)  
RN 185993-58-2 CAPLUS  
CN Benzoic acid, 2,5-bis[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-  
, 6-[4-[(4-nitrophenyl)azo]phenoxy]hexyl ester, (E)- (9CI) (CA INDEX  
NAME)

Double bond geometry as shown.

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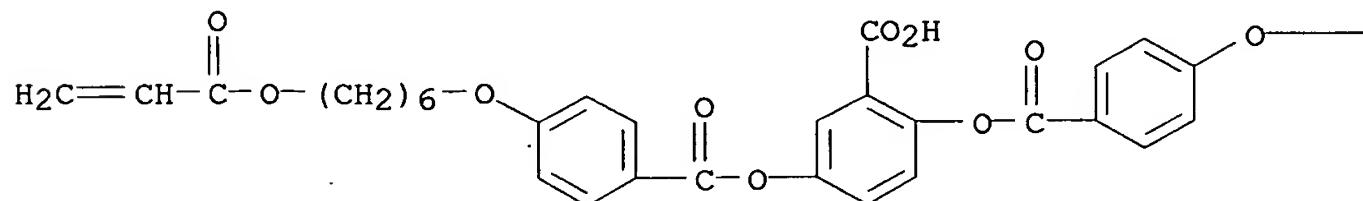
IT 171498-66-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(starting material; photocrosslinkable liquid-crystalline dyes for optical materials)

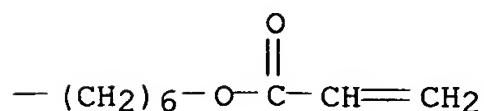
RN 171498-66-1 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-  
(9CI) (CA INDEX NAME)

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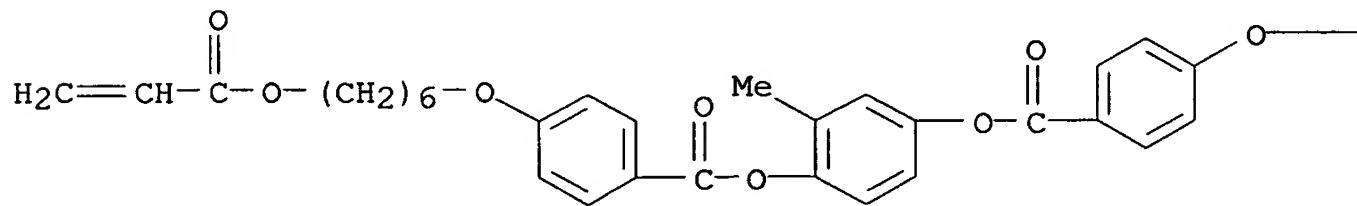


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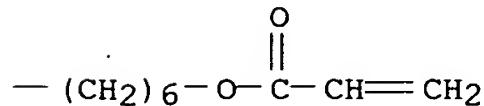


L11 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:34908 CAPLUS  
 DOCUMENT NUMBER: 126:75275  
 TITLE: Effects of monomer structure on their organization and polymerization in a smectic liquid crystal  
 AUTHOR(S): Guymon, C. Allan; Hoggan, Erik N.; Clark, Noel A.; Rieker, Thomas P.; Walba, David M.; Bowman, Christopher N.  
 CORPORATE SOURCE: Dep. Chem. Eng., Univ. Colorado, Boulder, CO, 80309-0424, USA  
 SOURCE: Science (Washington, D. C.) (1997), 275(5296), 57-59  
 CODEN: SCIEAS; ISSN: 0036-8075  
 PUBLISHER: American Association for the Advancement of Science  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Photopolymerizable diacrylate monomers dissolved in fluid-layer smectic A and smectic C liquid crystal hosts exhibited significant spatial segregation and orientation that depend strongly on monomer structure. Small, flexible monomers such as 1,6-hexanediol diacrylate (HDDA) oriented parallel to the smectic layers and intercalated, whereas rod-shaped mesogen-like monomers such as 1,4-bis[4-(6-acryloyloxyhexyloxy)benzoyloxy]-2-methylbenzene (C6M) oriented normal to the smectic layers and collected within them. Such spatial segregation caused by the smectic layering dramatically enhanced photopolymn. rates; for HDDA, termination rates were reduced, whereas for C6M, both the termination and propagation rates were increased.  
 IT 125248-71-7, c 6m  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties);  
 PROC (Process)  
 (diacrylate monomer structure effect on organization and photopolymn.  
 kinetics in smectic liquid-crystalline hosts)  
 RN 125248-71-7 CAPLUS  
 CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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L11 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1996:660855 CAPLUS  
 DOCUMENT NUMBER: 125:276859  
 TITLE: Intermediates and polymers of monomeric direactive

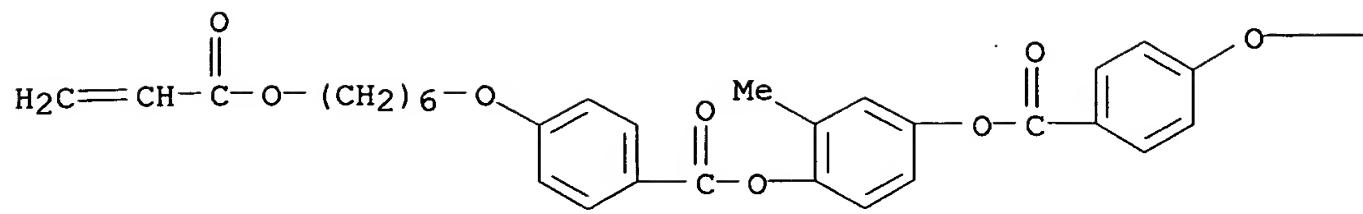
mesogenic compounds  
 INVENTOR(S): Coates, David; Greenfield, Simon  
 PATENT ASSIGNEE(S): Merck Patent GmbH, Germany  
 SOURCE: Brit. UK Pat. Appl., 33 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|--|------|----------|-----------------|--------------|
| GB 2297549   | A    | 19960807 | GB 1995-2294    | 19950206 <-- |
| GB 2297549   | B    | 19990630 |                 |              |
| WO 9624647   | A1   | 19960815 | WO 1996-EP240   | 19960122 <-- |
| W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,<br>ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,<br>LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,<br>SG, SI |      |          |                 |              |
| RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,<br>IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE  |      |          |                 |              |
| AU 9646203   | A    | 19960827 | AU 1996-46203   | 19960122 <-- |
| EP 808350  | A1   | 19971126 | EP 1996-901749  | 19960122 <-- |
| EP 808350  | B1   | 20010718 |                 |              |
| R: DE, GB, NL  |      |          |                 |              |
| CN 1173891   | A    | 19980218 | CN 1996-191803  | 19960122 <-- |
| JP 10513457  | T    | 19981222 | JP 1996-523926  | 19960122 <-- |
| US 6090308   | A    | 20000718 | US 1997-875767  | 19970805 <-- |
| US 6475574   | B1   | 20021105 | US 2000-575801  | 20000522     |
| GB 1995-2294 A 19950206  |      |          |                 |              |
| EP 1995-114518 A 19950915  |      |          |                 |              |
| WO 1996-EP240 W 19960122   |      |          |                 |              |
| US 1997-875767 A1 19970805   |      |          |                 |              |

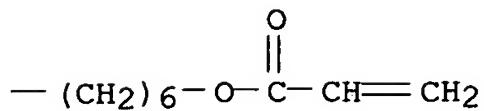
PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 125:276859  
 AB Direactive mesogenic liquid crystalline monomers or mixts. thereof comprising  
 mesogen-containing components are prepared, the mesogens having two side  
 chains attached thereto which contain a terminal polymerizable  
 functional group, the mesogens and the functional group being separated by  
 2-20 spacer atoms, wherein both spacer groups have  
 different chain lengths. Thus, hydroquinone was reacted with  
 tetrahydropyran and 3-(p-carboxyphenoxy)propyl 3-chloropropionate to give  
 an intermediate phenol derivative, which was esterified with  
 4-(p-carboxyphenoxy)butyl 3-chloropropionate and subsequently reduced to  
 give compound H<sub>2</sub>C:CHCO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O-p-C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>OCO-p-C<sub>6</sub>H<sub>4</sub>O(CH<sub>2</sub>)<sub>4</sub>O<sub>2</sub>CCH:CH<sub>2</sub>.  
 IT 125248-71-7P 174063-87-7P 182922-10-7P  
 182922-11-8P 182922-12-9P 182922-13-0P  
 182922-14-1P 182922-20-9P 182922-21-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (direactive mesogenic liquid crystalline monomers)  
 RN 125248-71-7 CAPLUS  
 CN Benzoic acid, 4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]-,  
 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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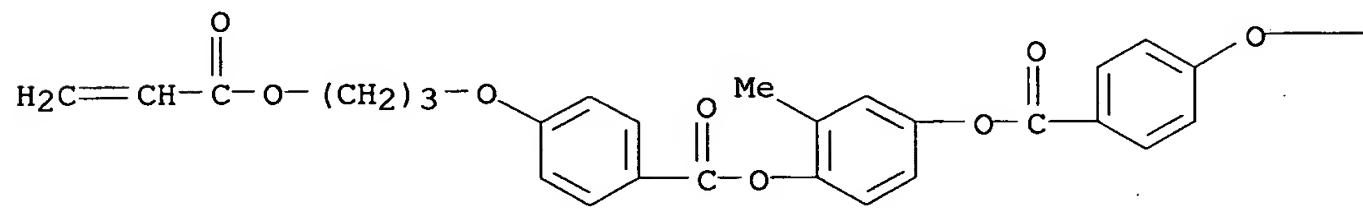
PAGE 1-B



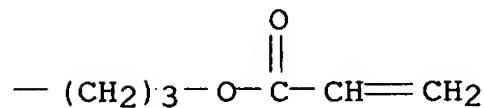
RN 174063-87-7 CAPLUS

CN Benzoic acid, 4-[3-[(1-oxo-2-propenyl)oxy]propoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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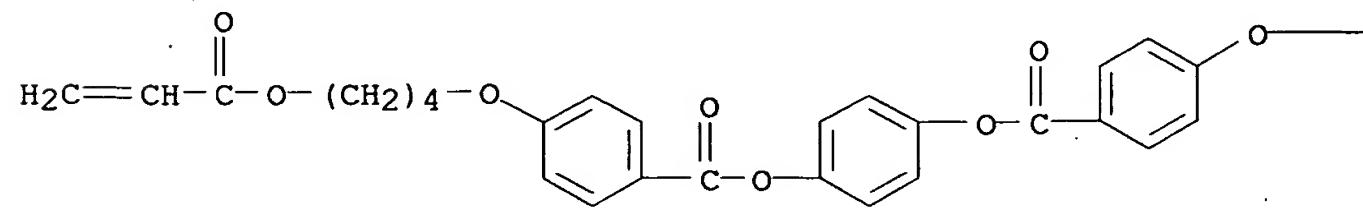
PAGE 1-B



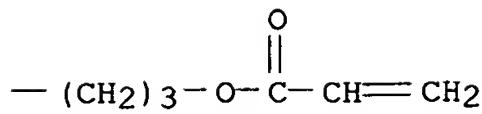
RN 182922-10-7 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[(4-[(3-[(1-oxo-2-propenyl)oxy]propoxy)benzoyl]oxy)phenyl ester (9CI) (CA INDEX NAME)

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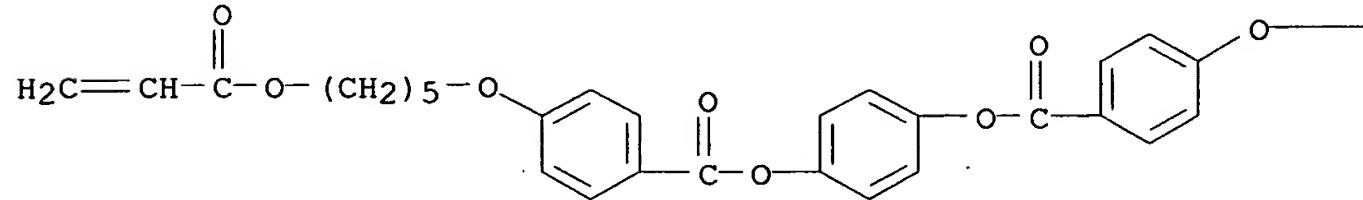
PAGE 1-B



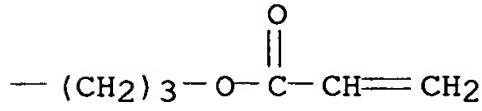
RN 182922-11-8 CAPLUS

CN Benzoic acid, 4-[(5-[(1-oxo-2-propenyl)oxy]pentyl)oxy]-,  
4-[(4-[(3-[(1-oxo-2-propenyl)oxy]propoxy)benzoyl]oxy)phenyl ester (9CI)  
(CA INDEX NAME)

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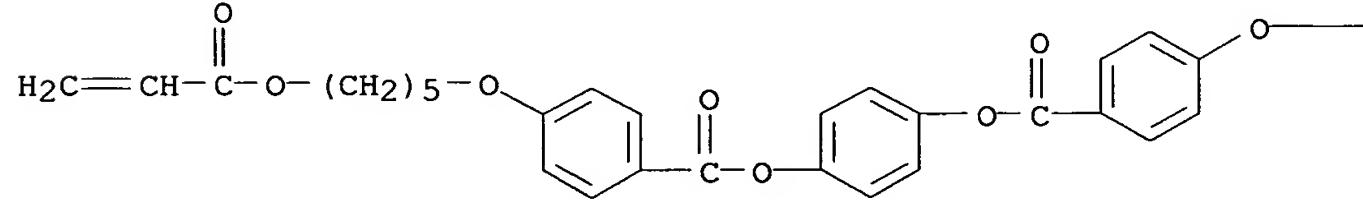
PAGE 1-B



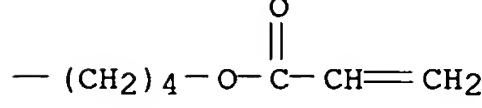
RN 182922-12-9 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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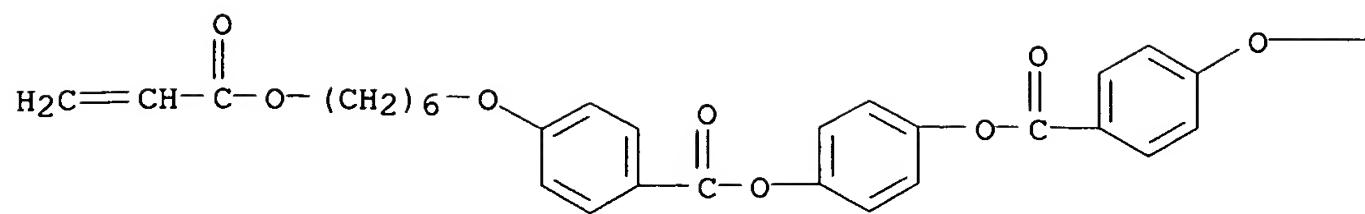
PAGE 1-B



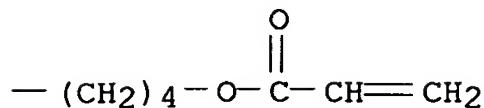
RN 182922-13-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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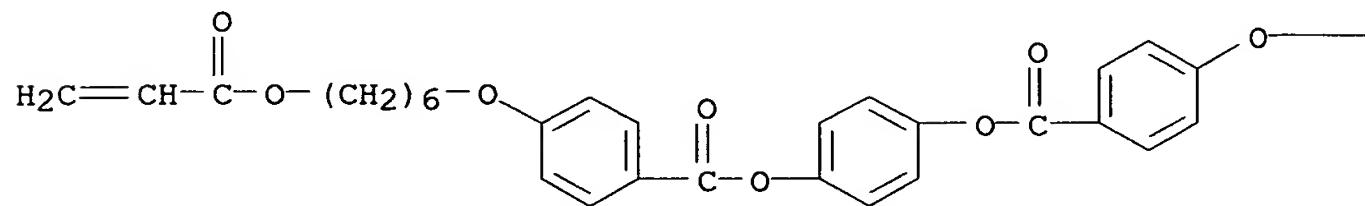
PAGE 1-B



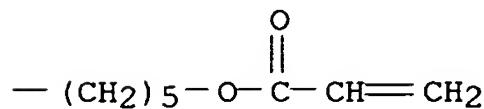
RN 182922-14-1 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-[[4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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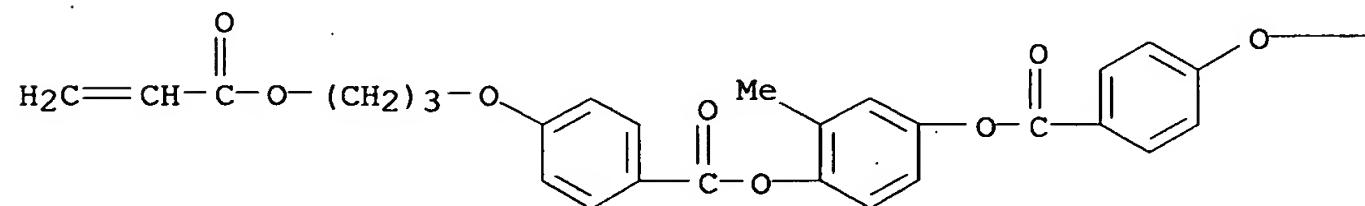
PAGE 1-B



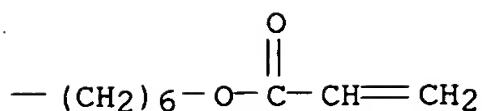
RN 182922-20-9 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 3-methyl-4-[[4-[[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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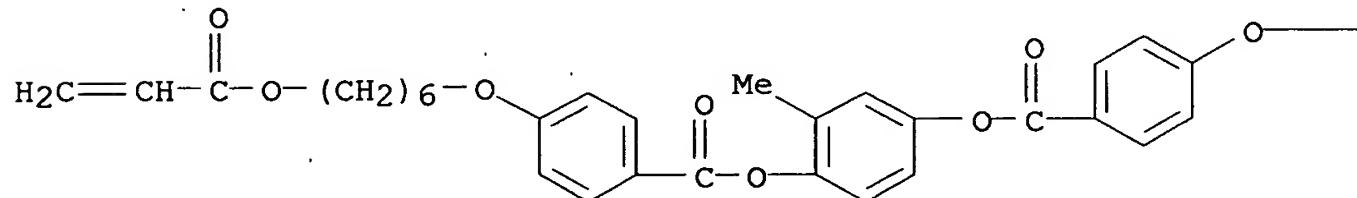
PAGE 1-B



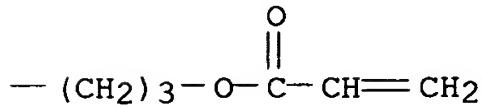
RN 182922-21-0 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-4-[[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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L11 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:571408 CAPLUS

DOCUMENT NUMBER: 125:222601

TITLE: Liquid crystal polymers copolymers and elastomers containing a laterally attached mesogenic unit

AUTHOR(S): Whale, Eric A.; Davis, Frederick J.; Mitchell, Geoffrey

CORPORATE SOURCE: Polymer Science Centre, University Reading, Reading, RG6 2AD, UK

SOURCE: Journal of Materials Chemistry (1996), 6(9), 1479-1485

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The synthesis of a closely-coupled laterally attached side-chain liquid crystal polymer is described. The material exhibits liquid crystalline behavior

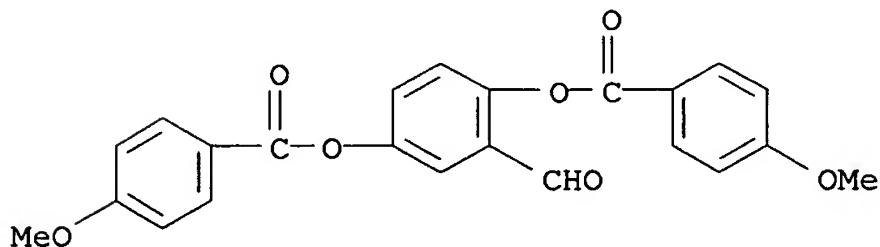
over a wide temperature range. Incorporation of non-mesogenic Me acrylate as a comonomer with the potentially mesogenic monomer results in copolymers which are liquid crystalline, even when the non-mesogenic portion exceeds 60 mol%. Macroscopic alignment can be readily realized in both homopolymer and copolymer samples, either using a magnetic field or by pulling as fibers, and X-ray scattering shows the level of global orientation to be relatively high. Copolymer. of the mesogenic units with .apprx.10 mol% of hydroxyethyl acrylate results in materials which can be crosslinked by reaction with a diisocyanate. The application of mech. stress to liquid crystalline elastomers based on this closely coupled unit results in some global orientation of the mesogens, and the stress-strain-orientation

behavior of this crosslinked system is described. Both copolymers and elastomers are compared with liquid crystal polymers in which the mesogen is attached via a terminal linkage.

IT 105252-90-2P, 2,5-Bis(4-methoxybenzoyloxy)benzaldehyde  
105252-91-3P, 2,5-Bis(4-methoxybenzoyloxy)benzyl alcohol  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(in preparation of bis(methoxybenzoyloxy)benzyl acrylate monomer)

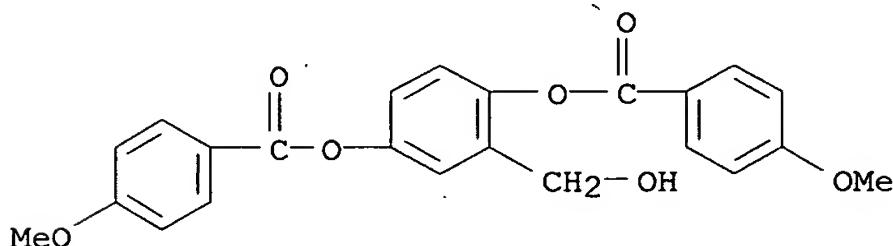
RN 105252-90-2 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 105252-91-3 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



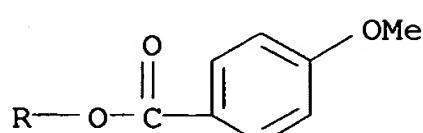
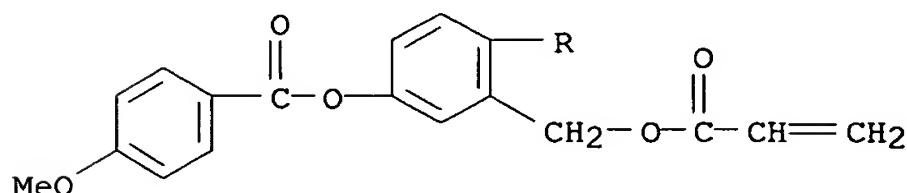
IT 105280-90-8P 181475-68-3P 181475-69-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and characterization of liquid-crystalline)

RN 105280-90-8 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4  
CMF C26 H22 O8



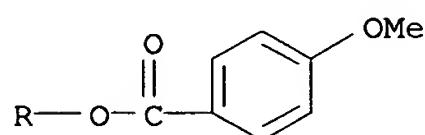
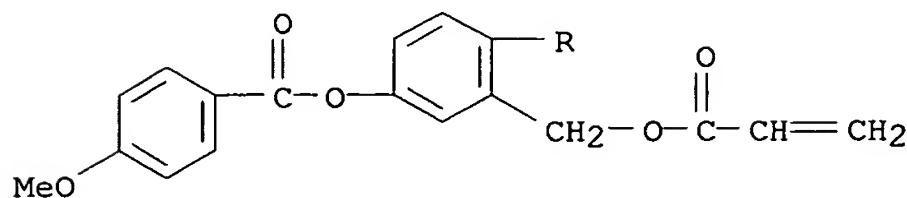
RN 181475-68-3 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, polymer with methyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4

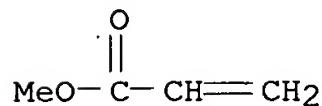
CMF C26 H22 O8



CM 2

CRN 96-33-3

CMF C4 H6 O2



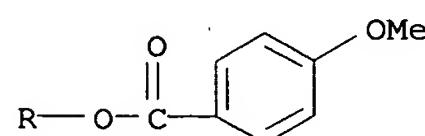
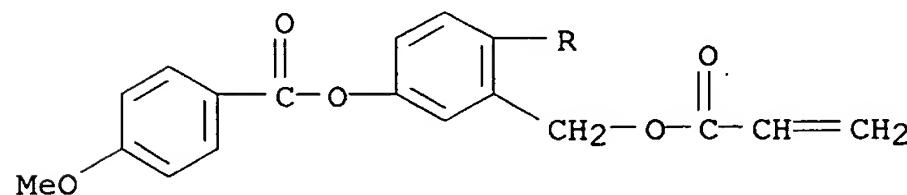
RN 181475-69-4 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, polymer with 2-hydroxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

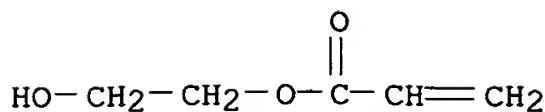
CRN 105252-92-4

CMF C26 H22 O8



CM 2

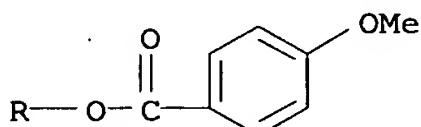
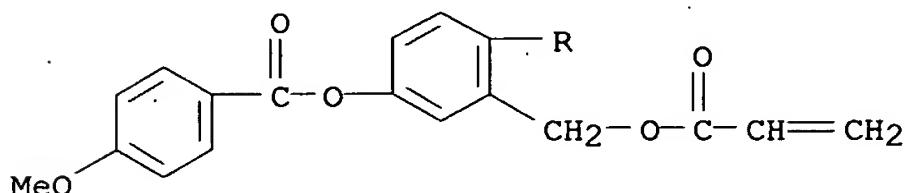
CRN 818-61-1  
CMF C5 H8 O3



IT 105252-92-4P, 2,5-Bis(4-methoxybenzoyloxy)benzyl acrylate  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and polymerization of)

RN 105252-92-4 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[[[1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)



L11 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1995:994654 CAPLUS  
DOCUMENT NUMBER: 124:177196  
TITLE: Mixtures of polymerizable liquid-crystalline compounds containing vinyl groups  
INVENTOR(S): Siemensmeyer, Karl; Etzbach, Karl-Heinz; Delavier, Paul; Meyer, Frank  
PATENT ASSIGNEE(S): BASF A.-G., Germany  
SOURCE: Ger. Offen., 93 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|--|------|----------|-----------------|--------------|
| DE 4408171   | A1   | 19950914 | DE 1994-4408171 | 19940311 <-- |
| WO 9524454   | A1   | 19950914 | WO 1995-EP707   | 19950227 <-- |
| W: BR, CA, CN, JP, KR, US  |      |          |                 |              |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE |      |          |                 |              |
| EP 749466  | A1   | 19961227 | EP 1995-911272  | 19950227 <-- |
| EP 749466  | B1   | 19971112 |                 |              |
| R: CH, DE, FR, GB, LI, NL  |      |          |                 |              |
| CN 1143973   | A    | 19970226 | CN 1995-192043  | 19950227 <-- |
| JP 11513360  | T    | 19991116 | JP 1995-523195  | 19950227 <-- |
| US 5833880   | A    | 19981110 | US 1996-682587  | 19960823 <-- |
| PRIORITY APPLN. INFO.:   |      |          | DE 1994-4408171 | A 19940311   |

OTHER SOURCE(S):

MARPAT 124:177196

AB The title mixts. contain  $\geq 2$  liquid-crystalline compds.  
 $Z1Y1A1Y1-p-C6H4CO2-p-C6H4O2C-p-C6H4Y2A2Y2Z2$  ( $Z1-2$  = polymerizable group such as acryloyloxy;  $Y1-2$  = a bond, O, CO<sub>2</sub>, O<sub>2</sub>C, S;  $A1-2$  = spacing group such as alkylene or alkyleneoxyalkylene;  $\geq 1$  of the 3 p-C<sub>6</sub>H<sub>4</sub> groups optionally contains 1-3 alkyl, halo, alkoxy, and/or other substituent). The mixts. are useful for the preparation of photocurable adhesives, liquid-crystalline polymers, etc. A liquid-crystalline mixture contained

1,4-bis[4-(6-acryloyloxyhexoxy)benzoyloxy]benzene and  
 1,4-bis[4-(6-acryloyloxyhexoxy)benzoyloxy]-2-chlorobenzene.

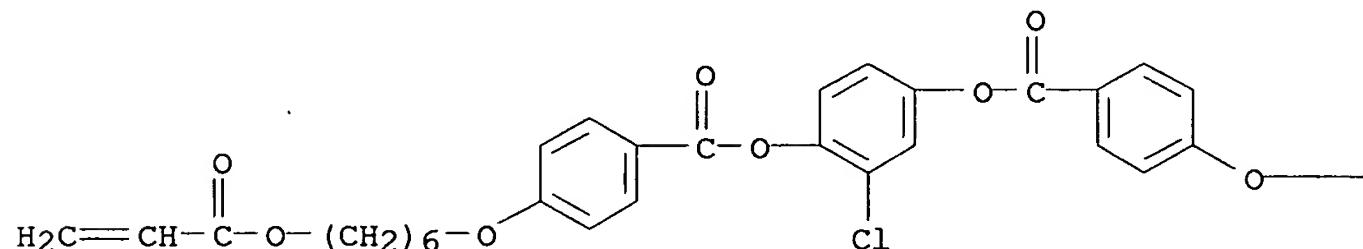
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 172257-70-4P 172257-73-7P 172257-74-8P  
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 172257-80-6P 172257-81-7P 172257-82-8P  
 172258-16-1P 172258-17-2P 172258-18-3P  
 172258-21-8P 172258-22-9P 172258-23-0P  
 172258-24-1P 172258-25-2P 172258-29-6P  
 172258-30-9P 172258-31-0P 172258-32-1P  
 172258-33-2P 172258-34-3P 172258-35-4P  
 172258-36-5P 172258-37-6P 172258-38-7P  
 172258-39-8P 172258-40-1P 172258-41-2P  
 172258-52-5P 172258-61-6P

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PRP (Properties); PREP (Preparation); USES (Uses)  
 (liquid-crystalline polymerizable mixts. containing)

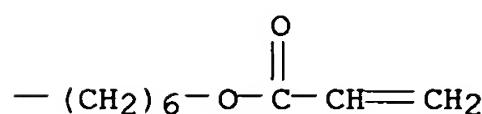
RN 150809-90-8 CAPLUS

CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)

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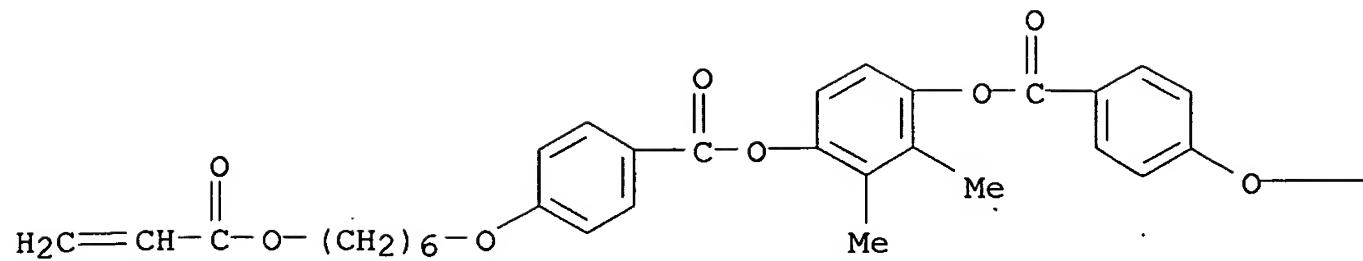
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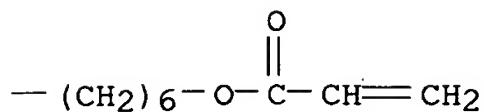
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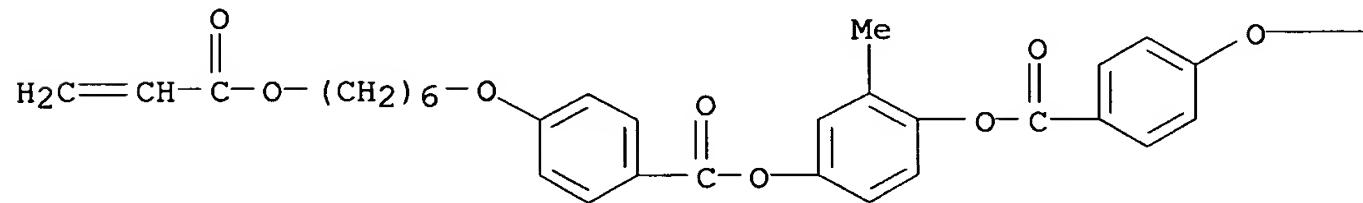
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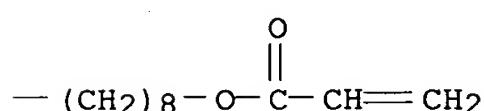
RN 172257-69-1 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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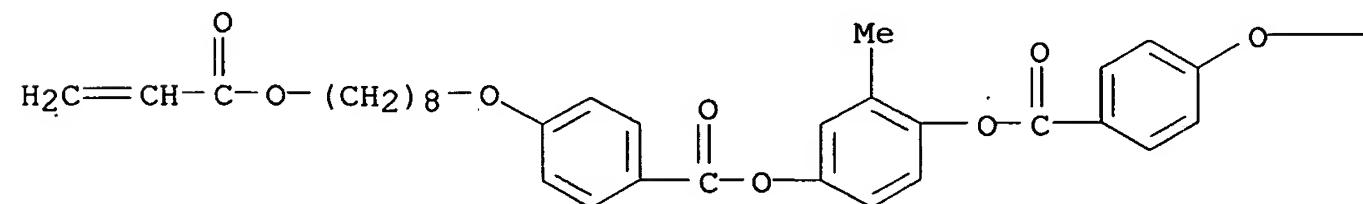
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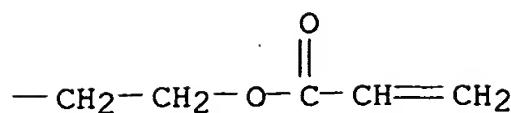
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CN Benzoic acid, 4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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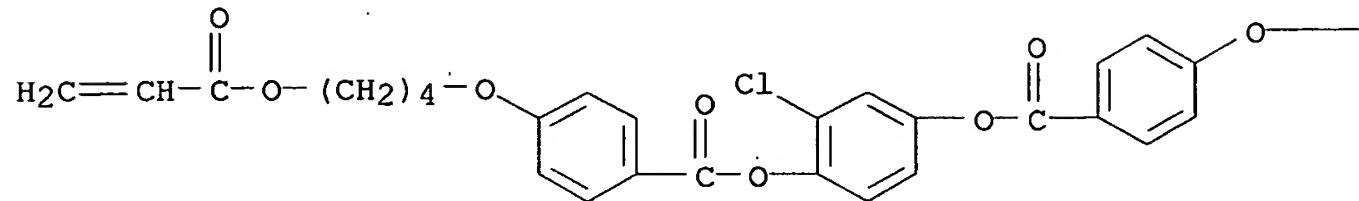
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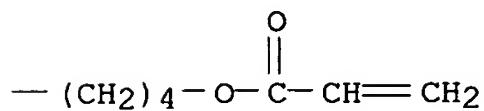
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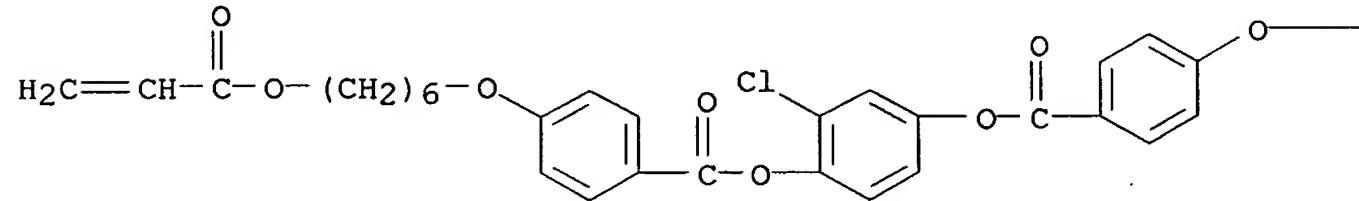
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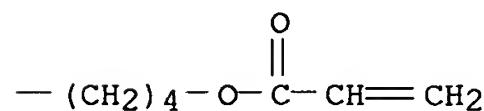
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-chloro-4-[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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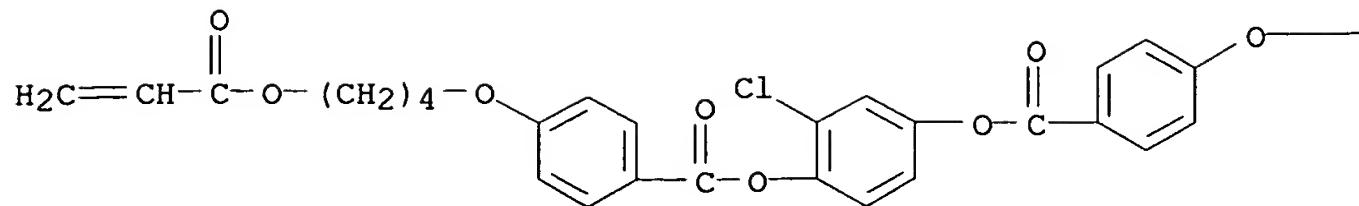
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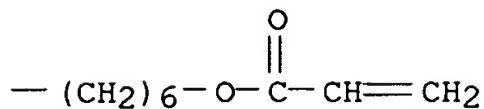
RN 172257-75-9 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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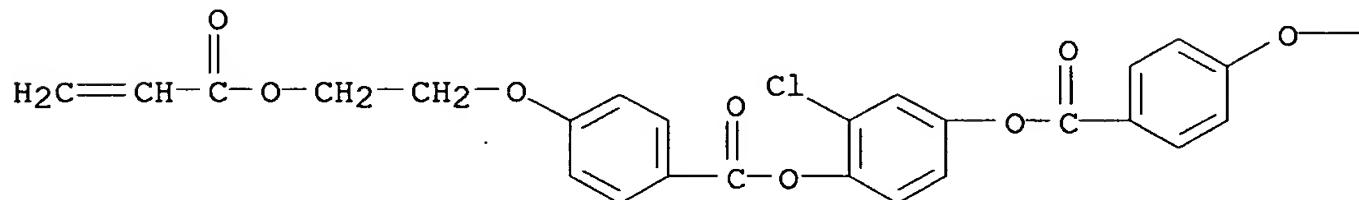


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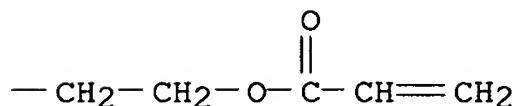


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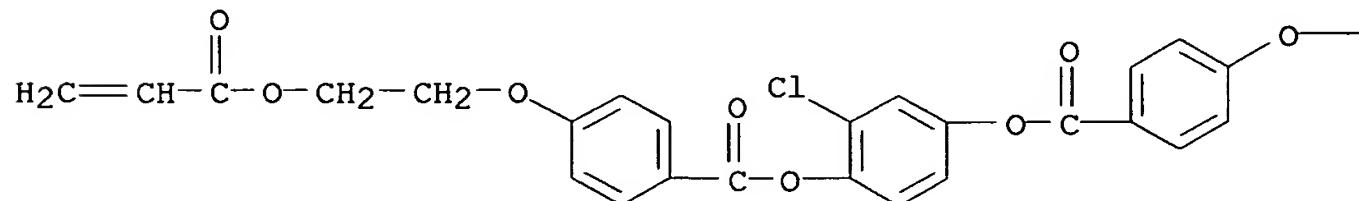


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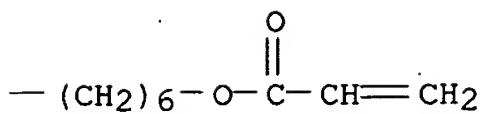


RN 172257-79-3 CAPLUS  
CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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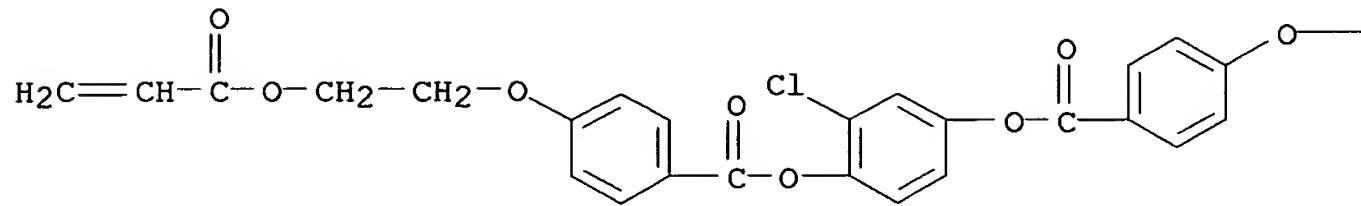
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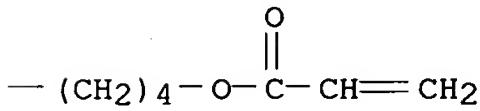
RN 172257-80-6 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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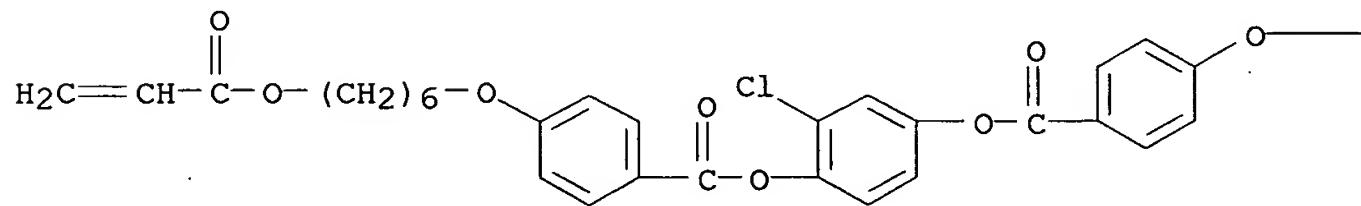
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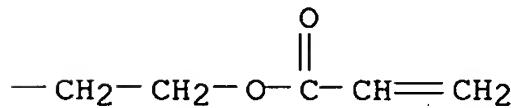
RN 172257-81-7 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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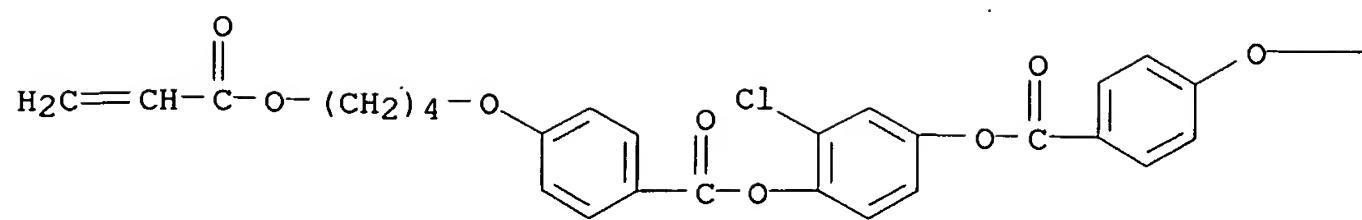
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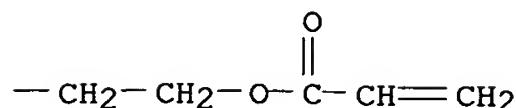
RN 172257-82-8 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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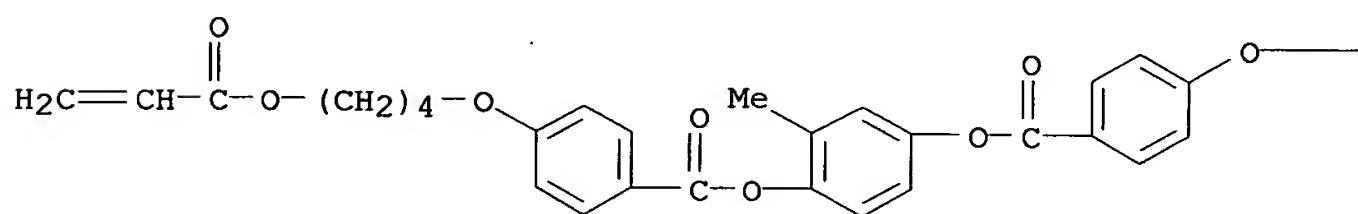
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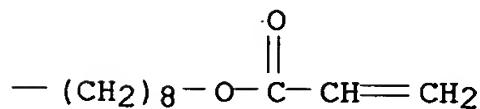
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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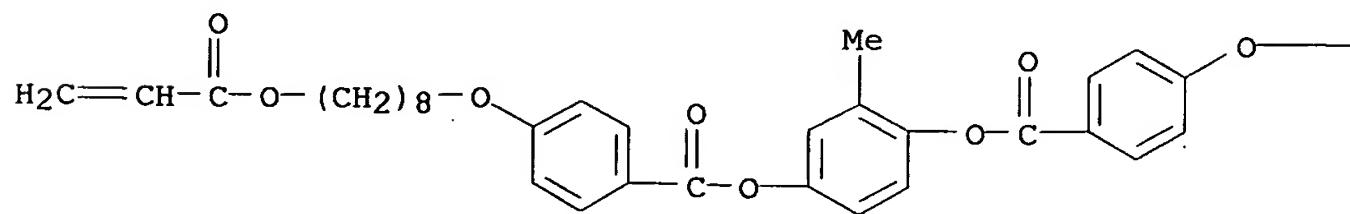
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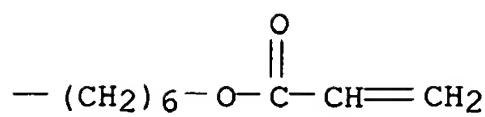
RN 172258-17-2 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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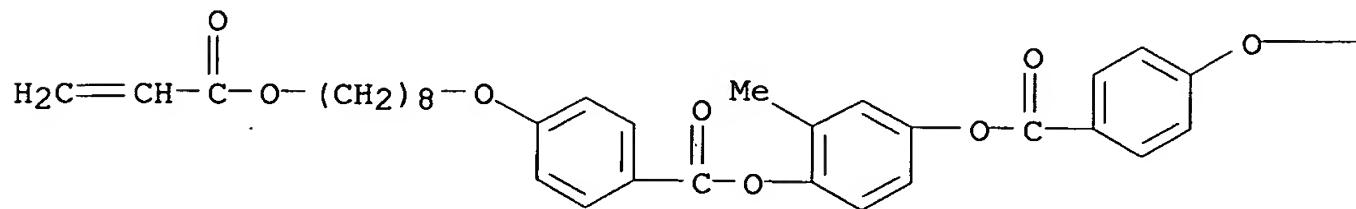
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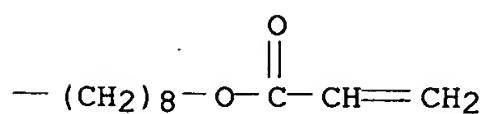
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CN Benzoic acid, 4-[(8-[(1-oxo-2-propenyl)oxy]octyl)oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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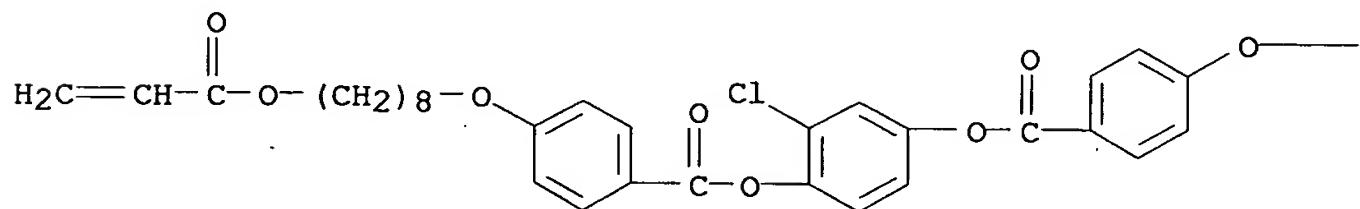
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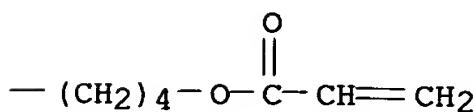
RN 172258-21-8 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-chloro-4-[[4-[(8-[(1-oxo-2-propenyl)oxy]octyl)oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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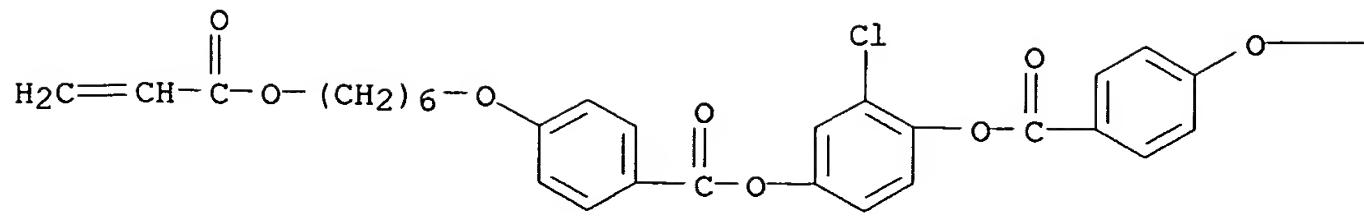
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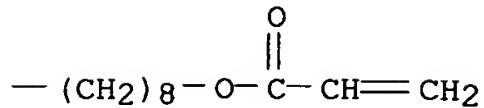
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CN Benzoic acid, 4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]-, 3-chloro-4-[[4-[(8-[(1-oxo-2-propenyl)oxy]octyl)oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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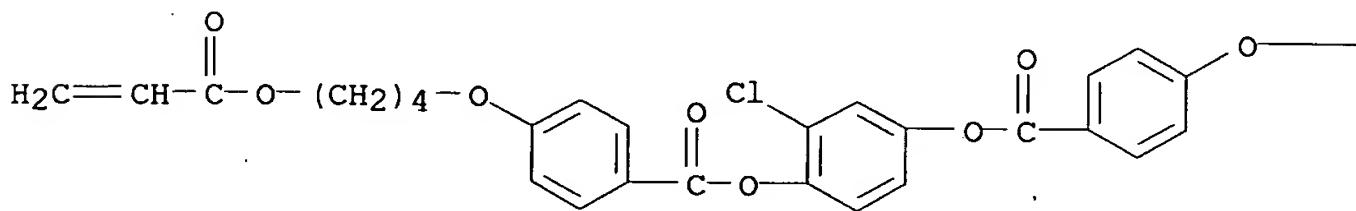
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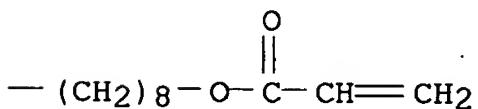
RN 172258-23-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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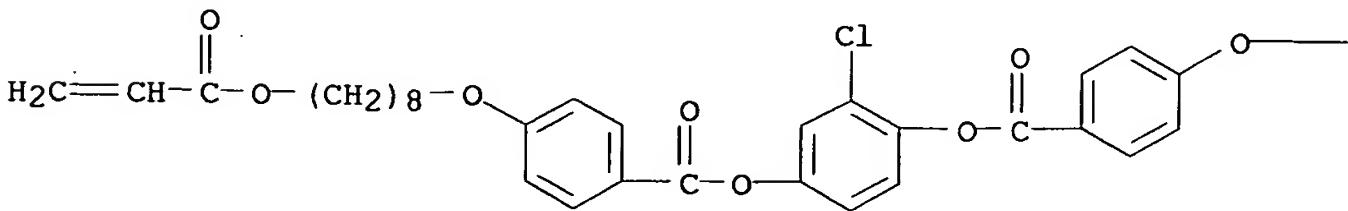
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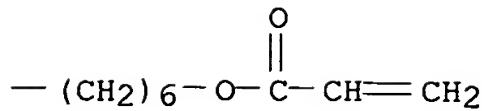
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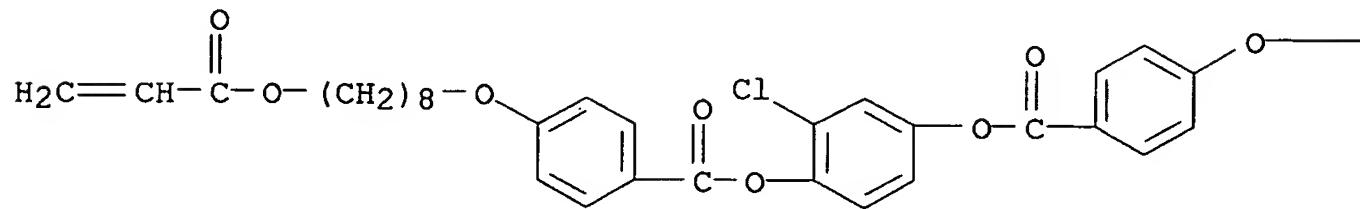
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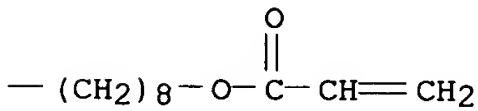
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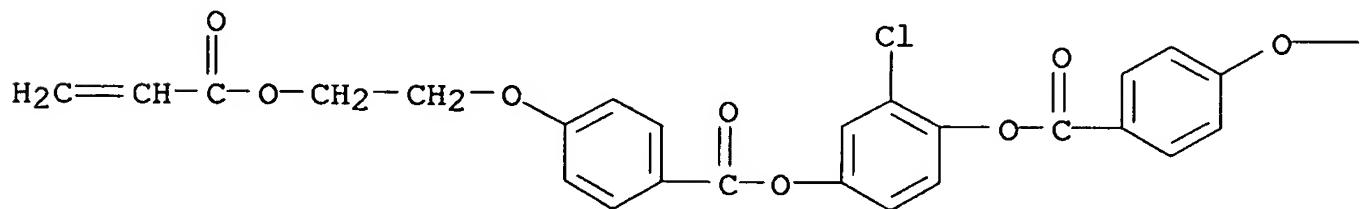
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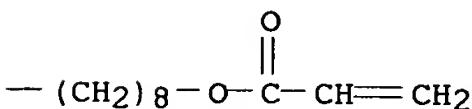
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CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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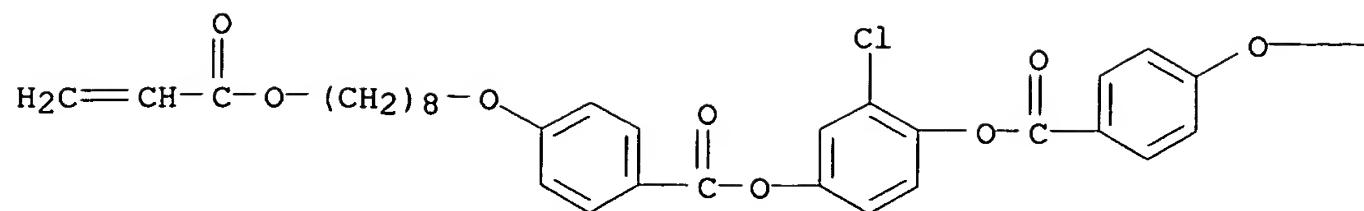
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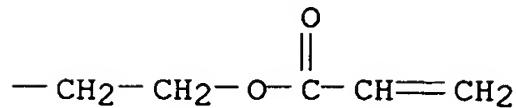
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CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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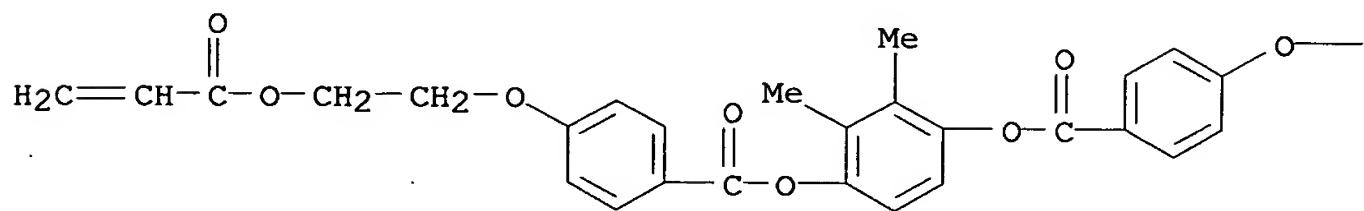
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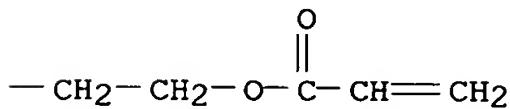
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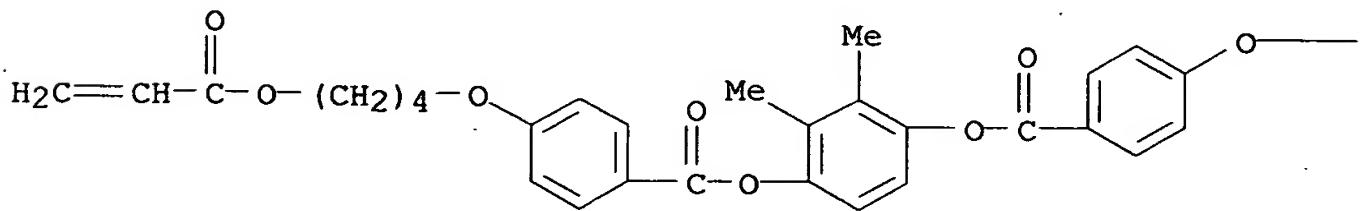
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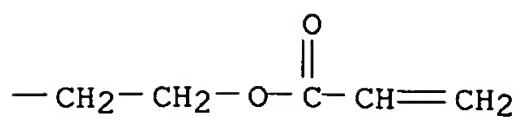
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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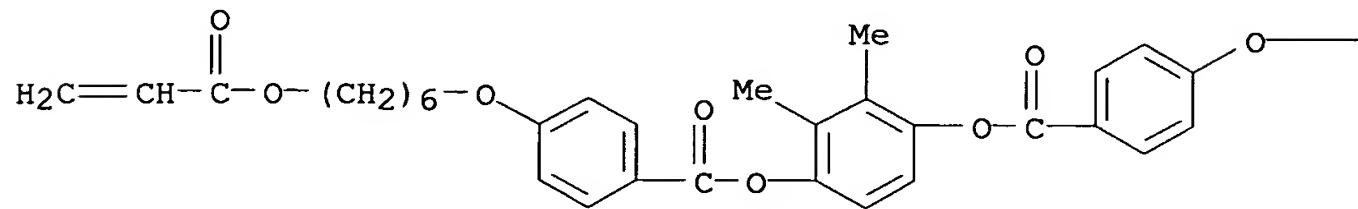
PAGE 1-B



RN 172258-33-2 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2,3-dimethyl-4-[[4-[(6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

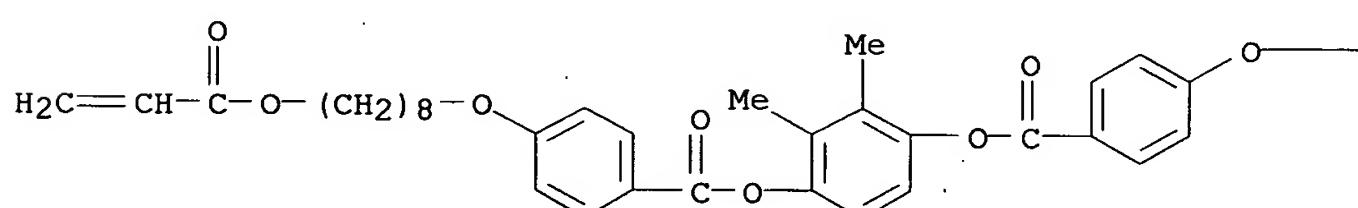
PAGE 1-A



RN 172258-34-3 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2,3-dimethyl-4-[[4-[(8-[(1-oxo-2-propenyl)oxy]octyl)oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

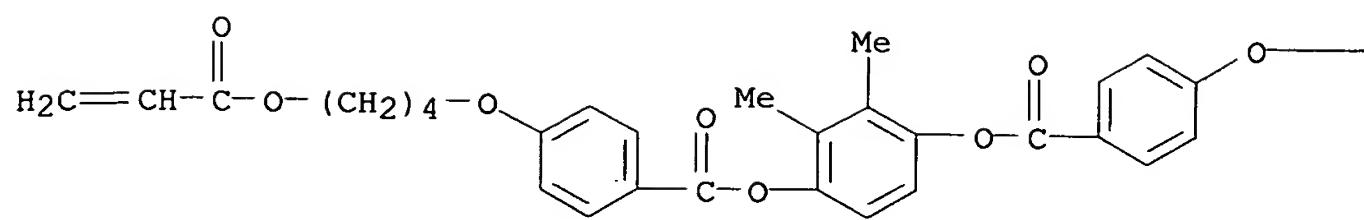
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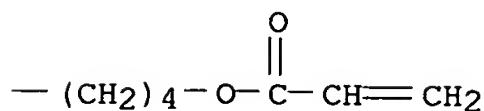
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PAGE 1-A



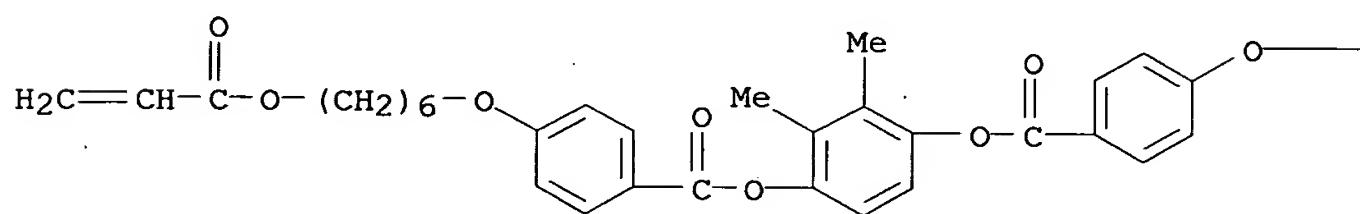
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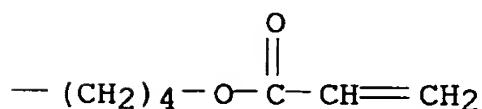
RN 172258-36-5 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-4-[[4-[(6-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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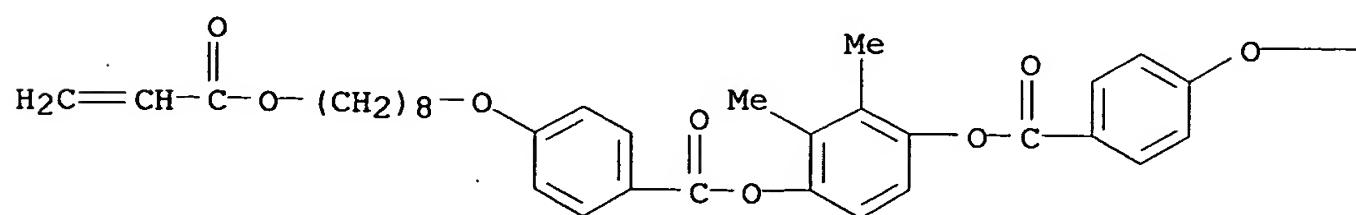
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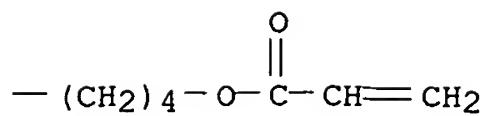
RN 172258-37-6 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-4-[[4-[(8-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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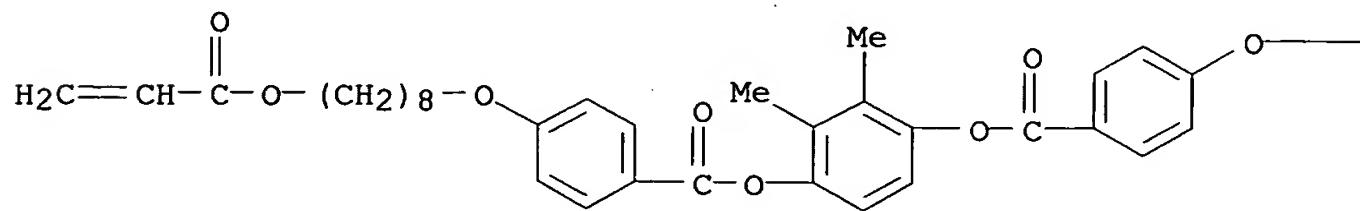
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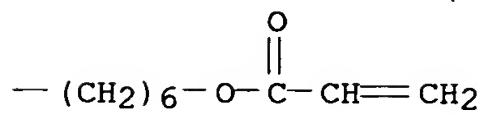
RN 172258-38-7 CAPIUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3-dimethyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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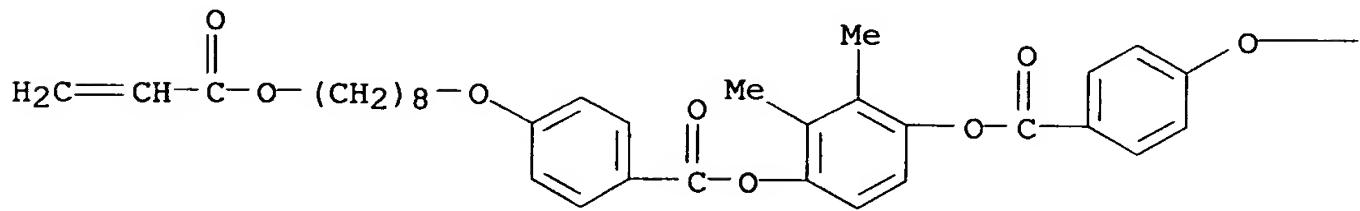
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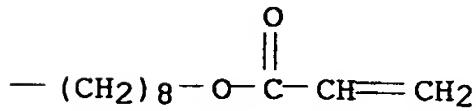
RN 172258-39-8 CAPIUS

CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-, 2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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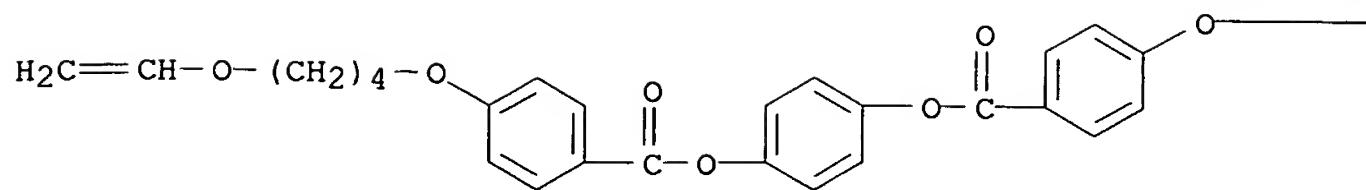
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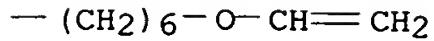
RN 172258-40-1 CAPIUS

CN Benzoic acid, 4-[4-(ethenyloxy)butoxy]-, 4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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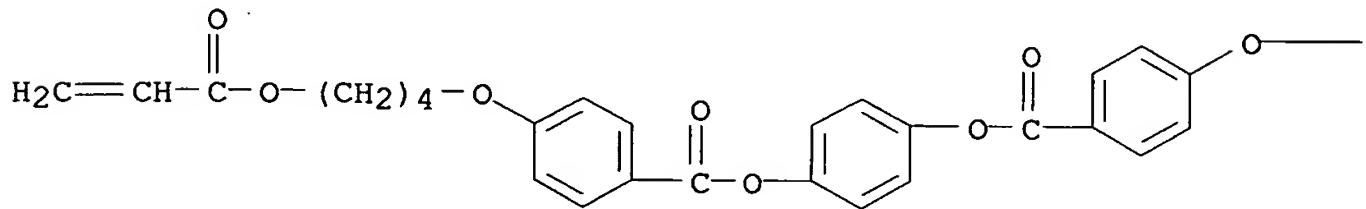
PAGE 1-B



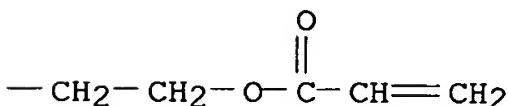
RN 172258-41-2 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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RN 172258-52-5 CAPLUS

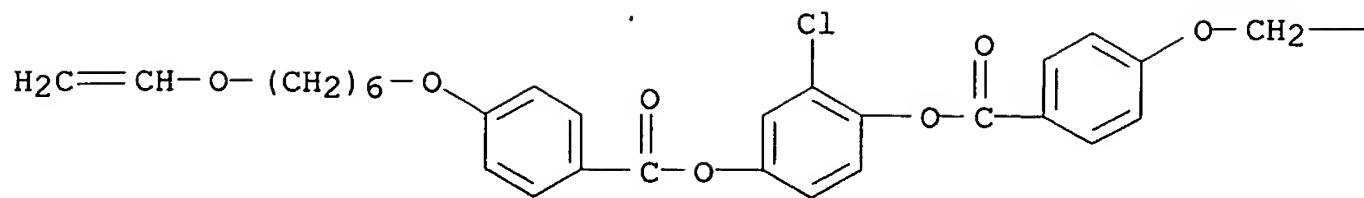
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate], mixt. with 3-chloro-4-[[4-[2-(ethenyloxy)ethoxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[4-[2-(ethenyloxy)ethoxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[2-(ethenyloxy)ethoxy]benzoate, 3-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[2-(ethenyloxy)ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[[4-(ethenyloxy)butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[2-(ethenyloxy)ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate] and hexahydrofuro[2,3-b]furan-3,6-diyl bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

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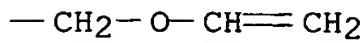
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CMF C32 H33 Cl O8

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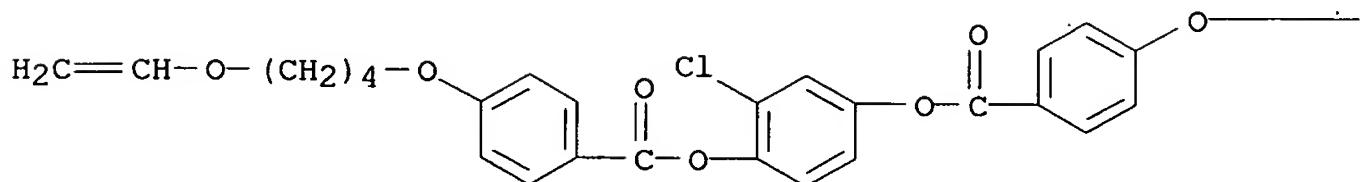


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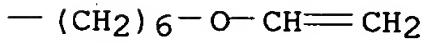
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CMF C34 H37 Cl 08

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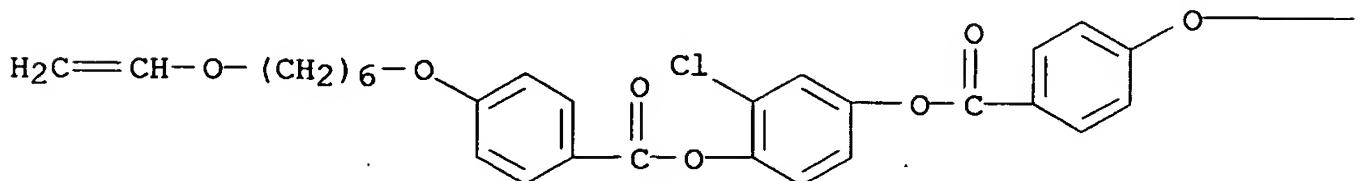


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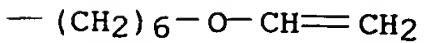
CRN 172258-49-0

CMF C36 H41 Cl 08

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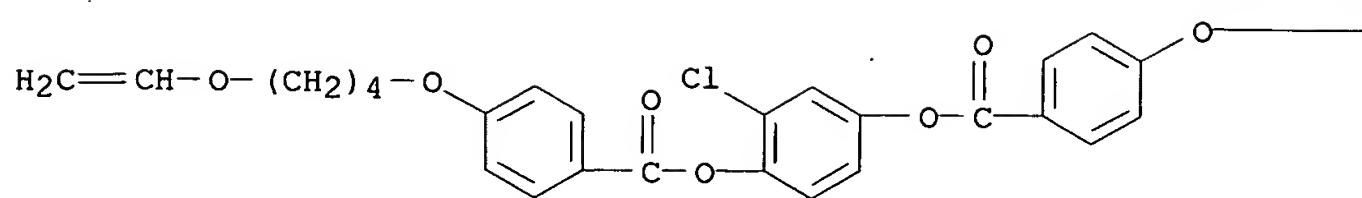
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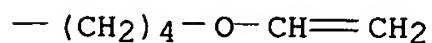
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CRN 172258-48-9  
CMF C32 H33 Cl 08

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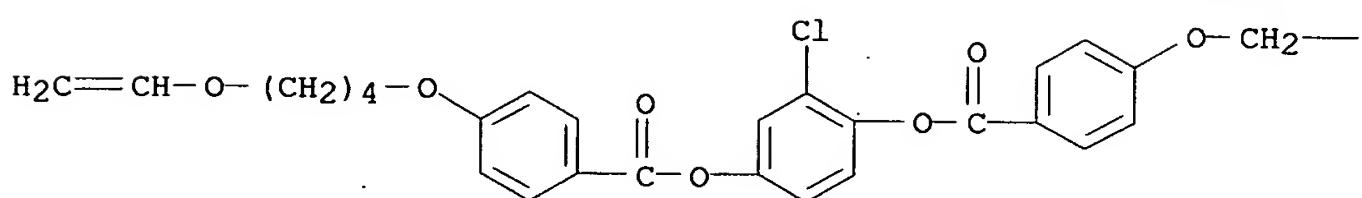
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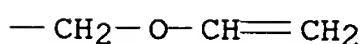
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CRN 172258-47-8  
CMF C30 H29 Cl 08

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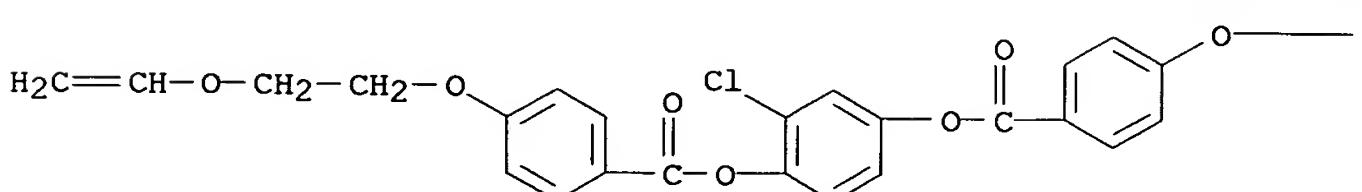
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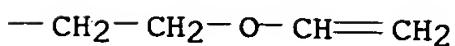
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CMF C28 H25 Cl 08

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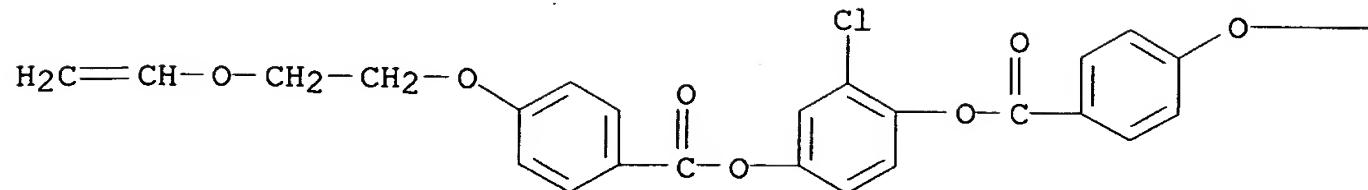
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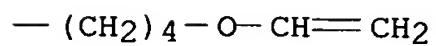
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CRN 172258-45-6  
CMF C30 H29 Cl 08

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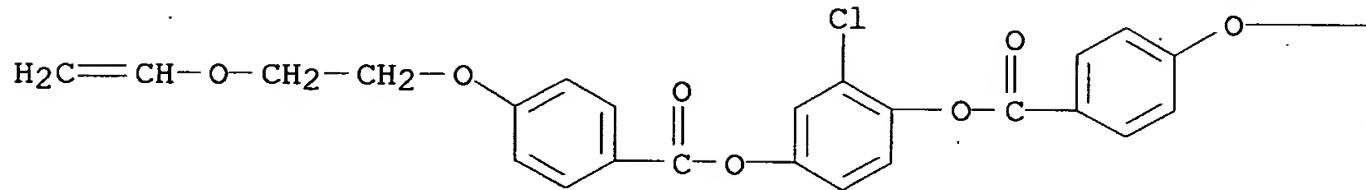
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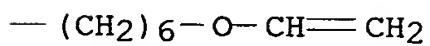
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CMF C32 H33 Cl 08

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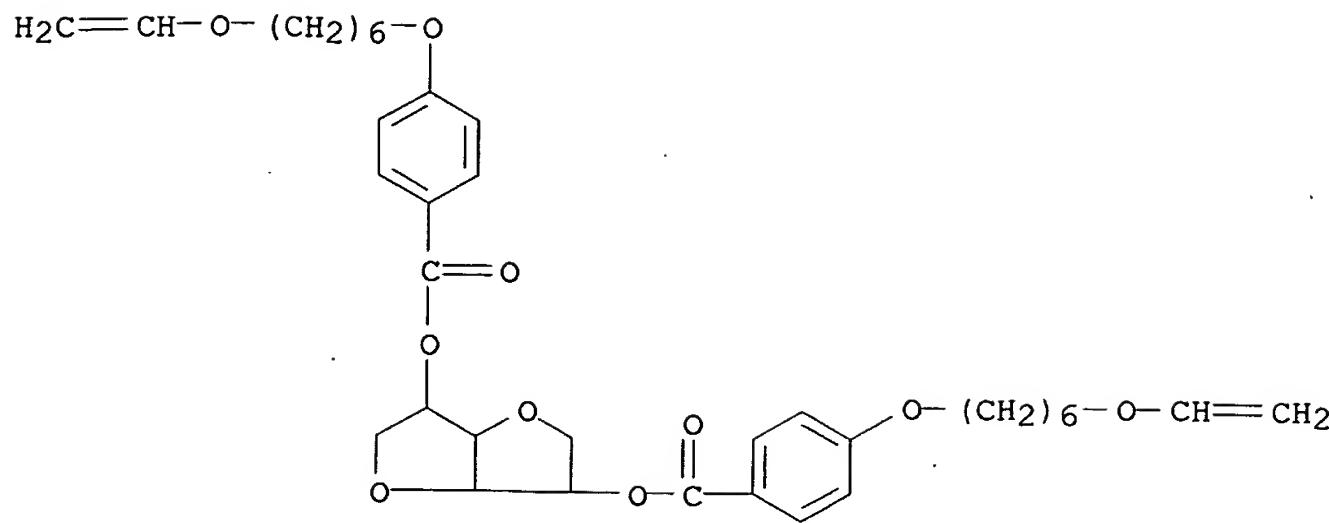


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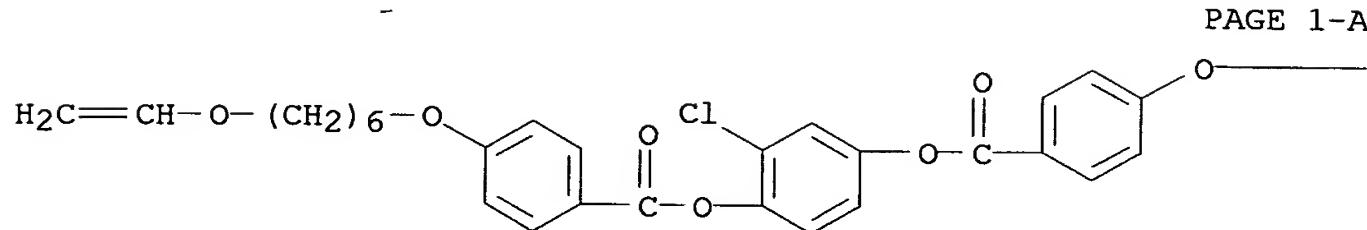
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CMF C36 H46 O10



CM 10

CRN 172258-42-3  
CMF C34 H37 Cl O8

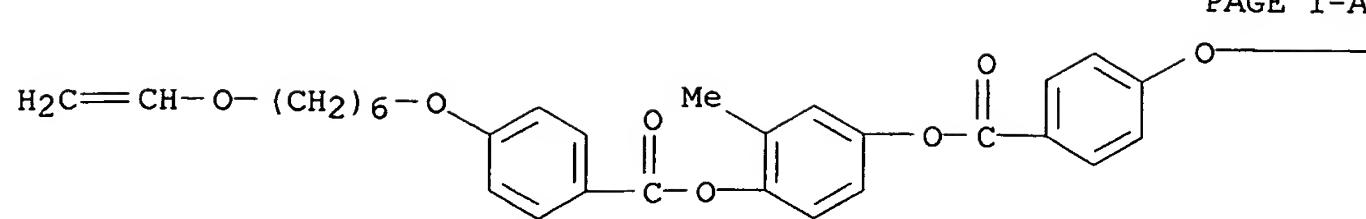


RN 172258-61-6 CAPLUS  
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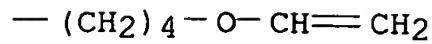
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CRN 172258-60-5  
CMF C35 H40 O8

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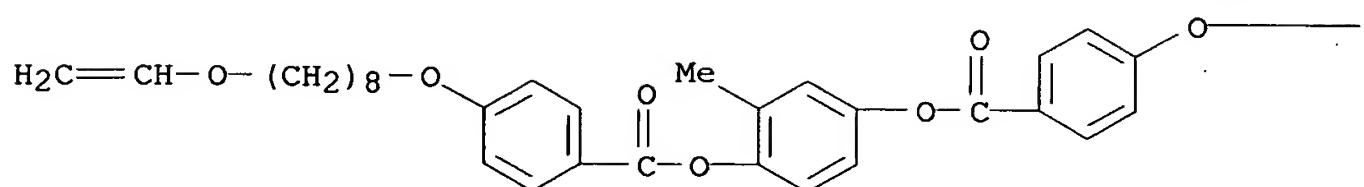
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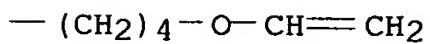
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CMF C37 H44 O8

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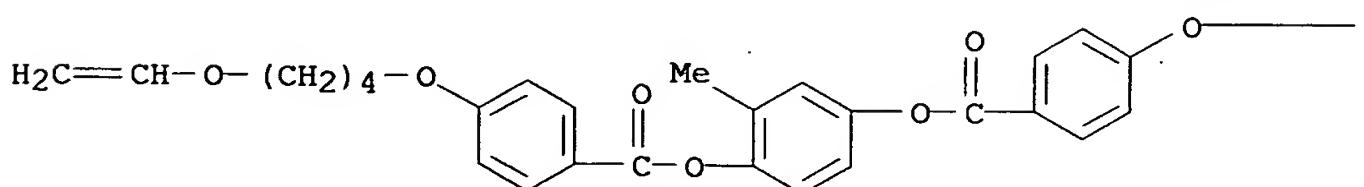
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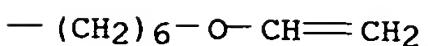
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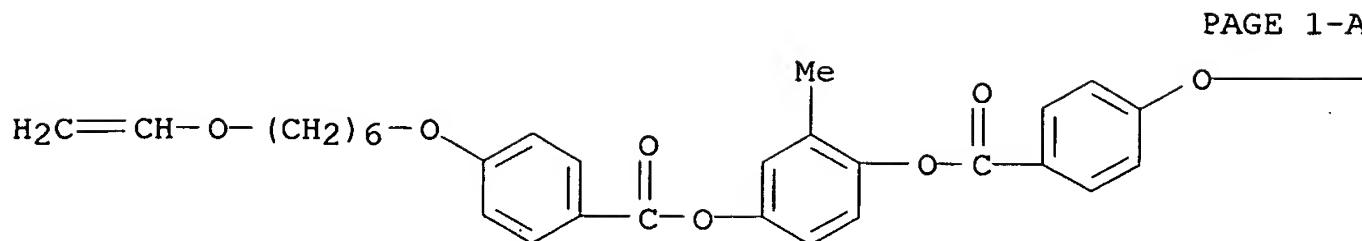


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CM 4

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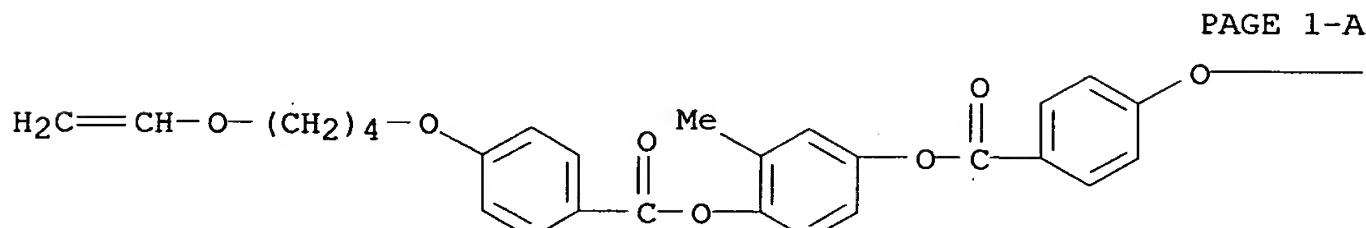


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CMF C37 H44 08

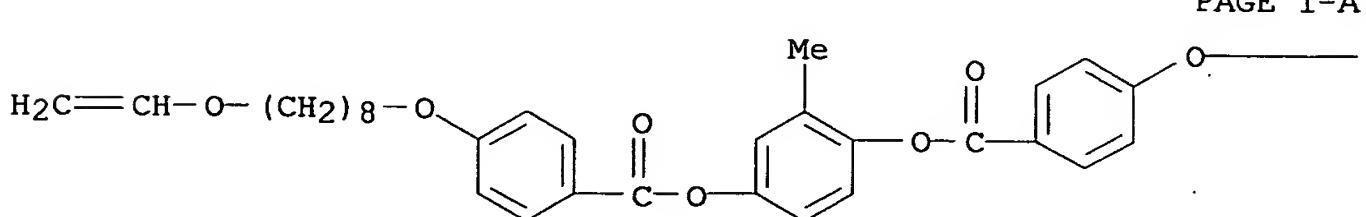


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PAGE 1-B

CM 6

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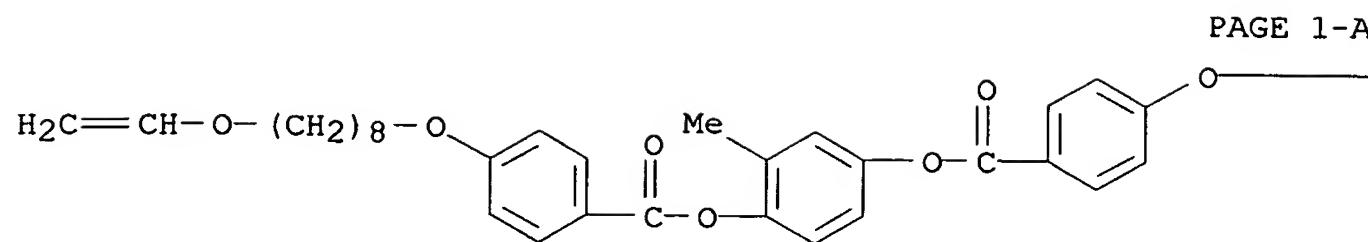


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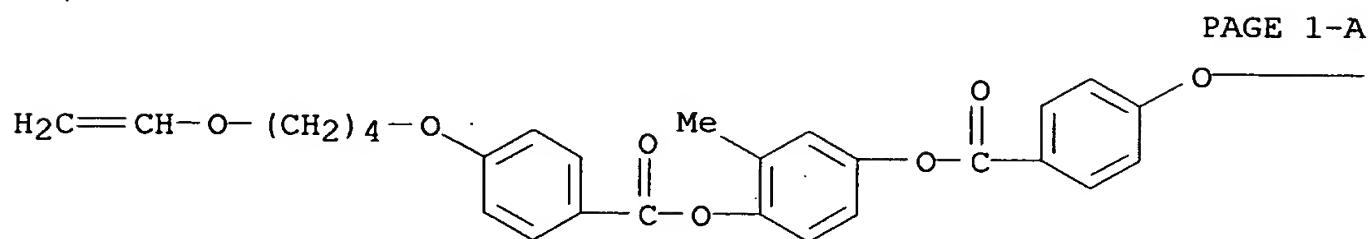
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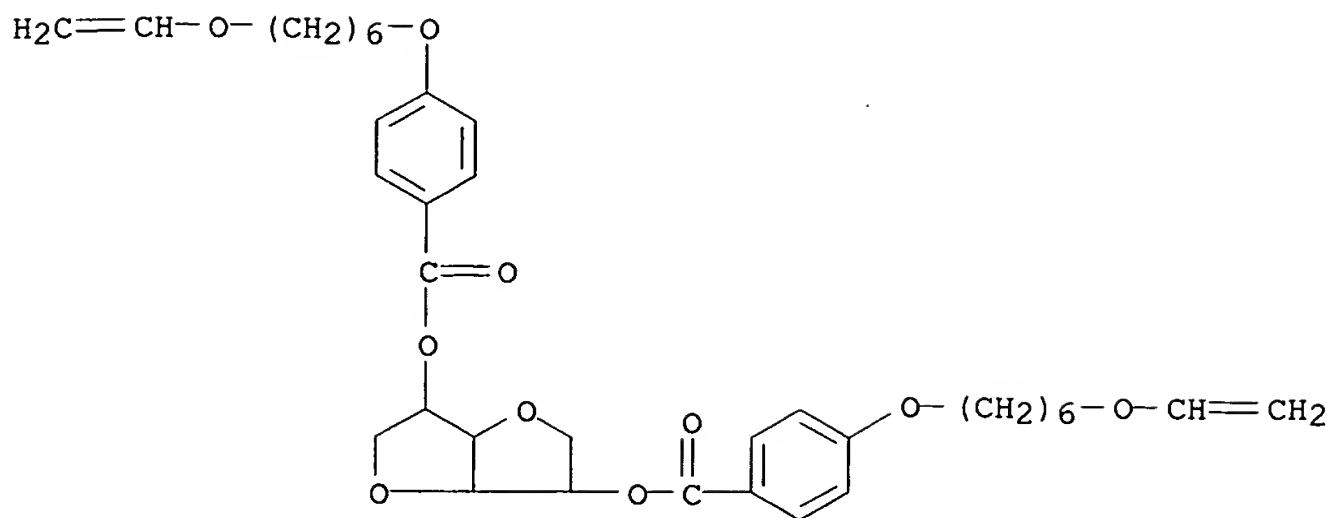
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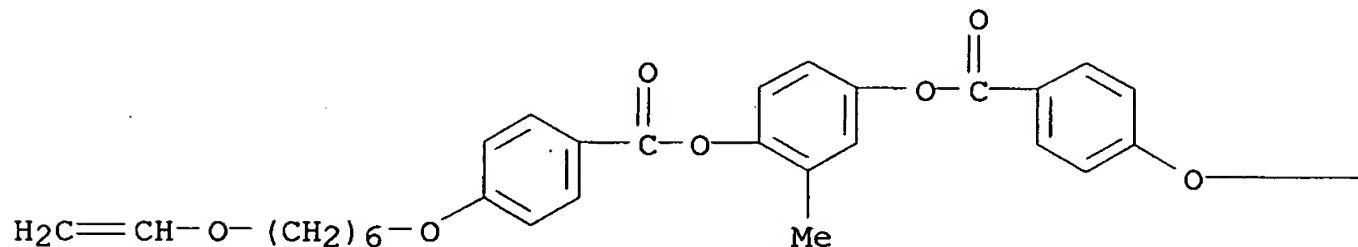
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CMF C36 H46 O10



CM 10

CRN 148160-60-5  
 CMF C37 H44 O8

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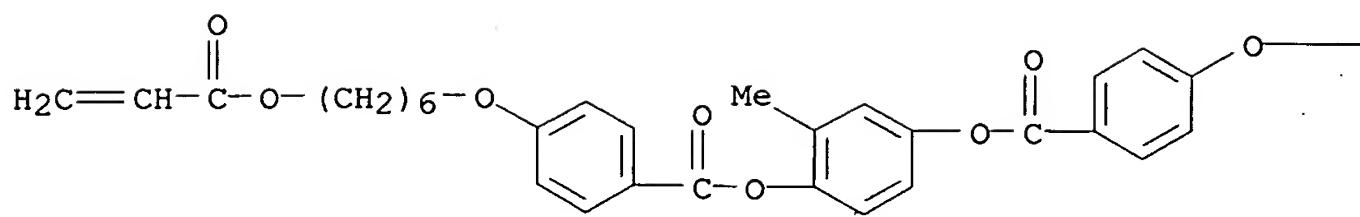
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 172258-10-5 172258-11-6 172258-12-7  
 172258-15-0 172258-28-5

RL: NUU (Other use, unclassified); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (liquid-crystalline polymerizable mixts. containing)

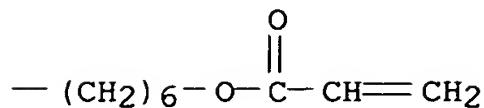
RN 125248-71-7 CAPLUS

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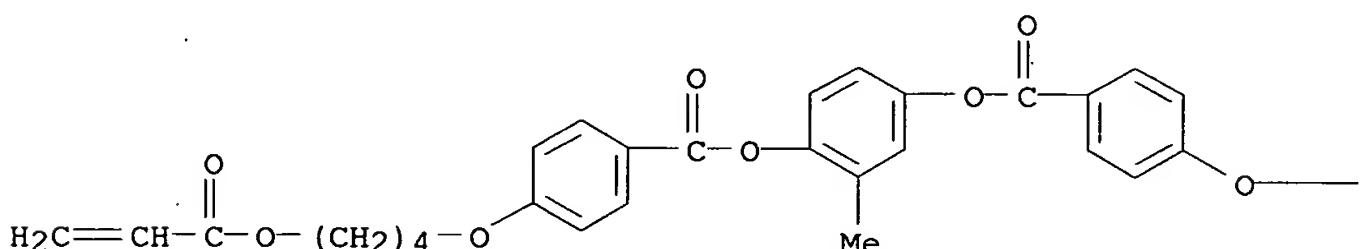
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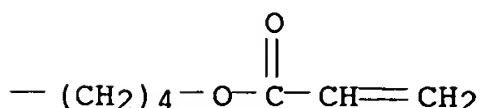
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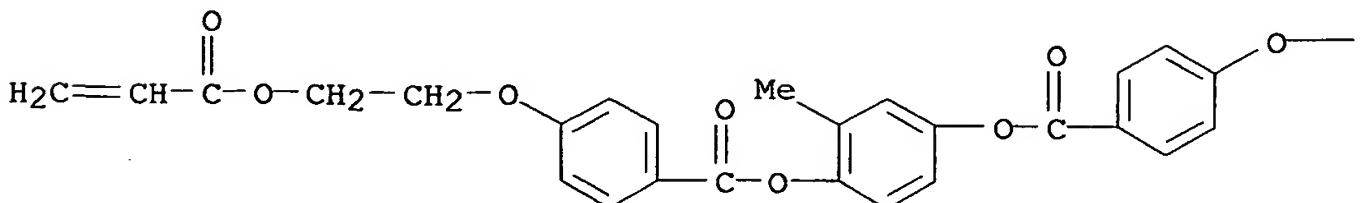
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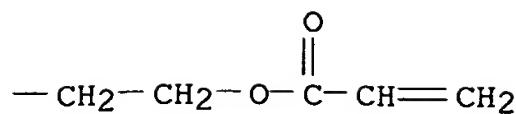
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CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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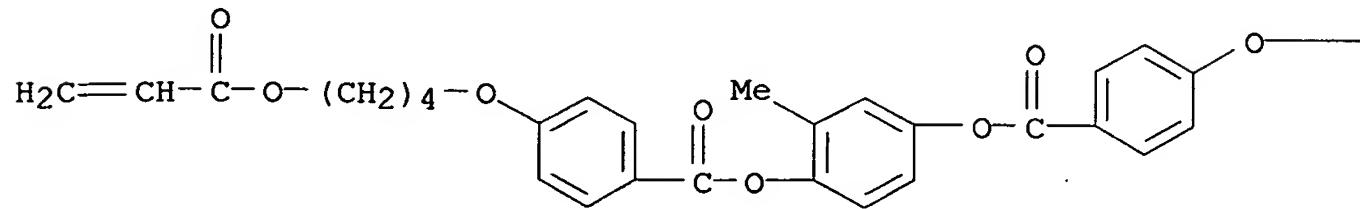
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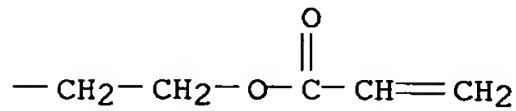
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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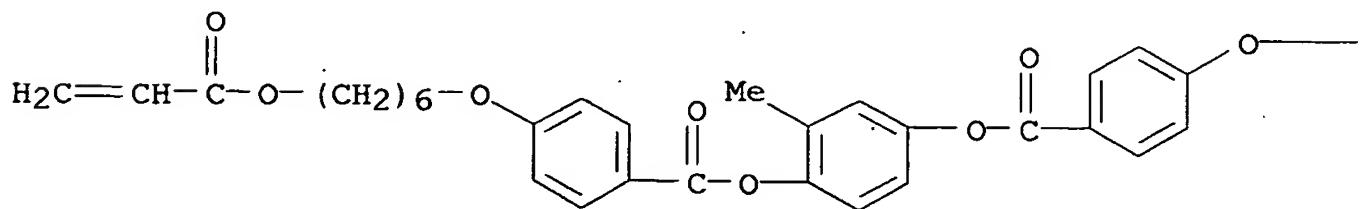
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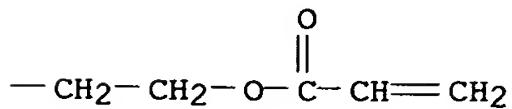
RN 172258-08-1 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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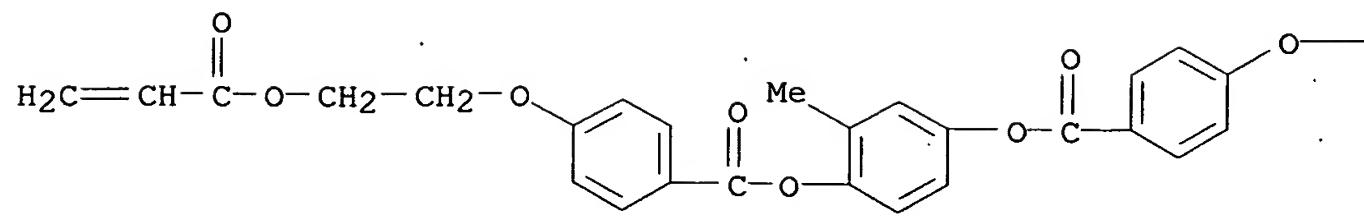
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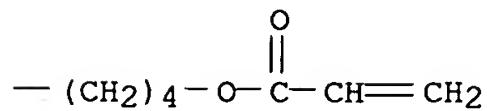
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-methyl-4-[[4-[(2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl)oxy]phenyl ester (9CI) (CA INDEX NAME)

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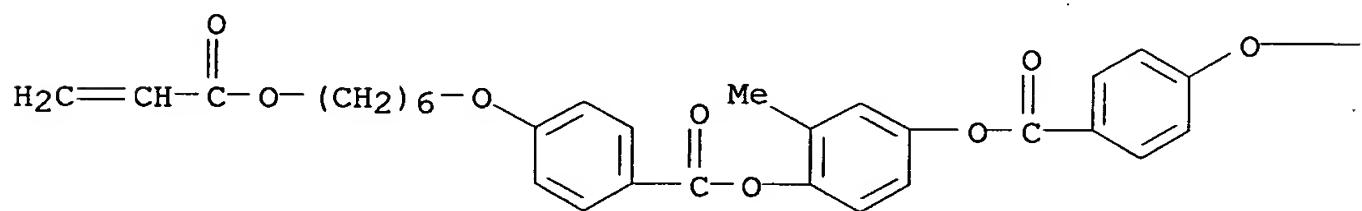
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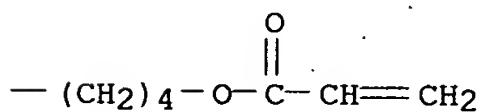
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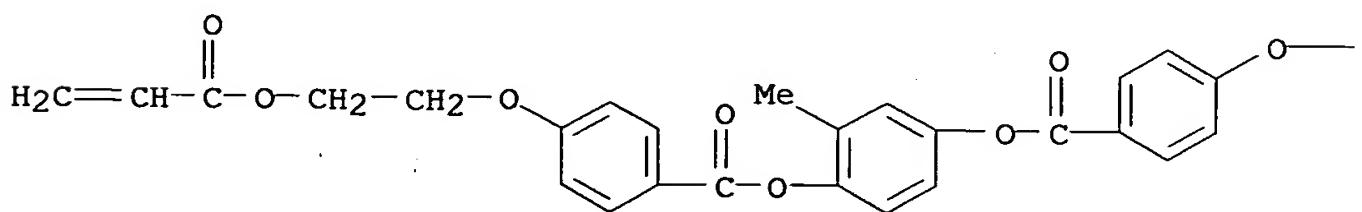
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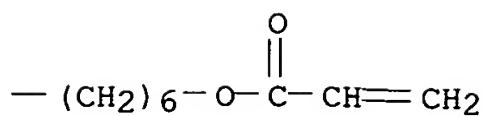
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CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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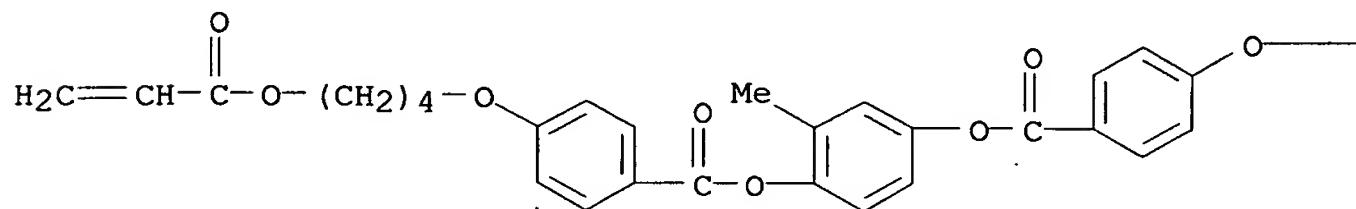
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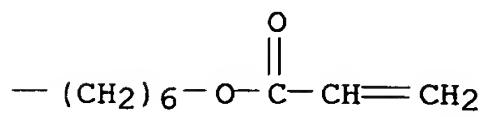
RN 172258-12-7 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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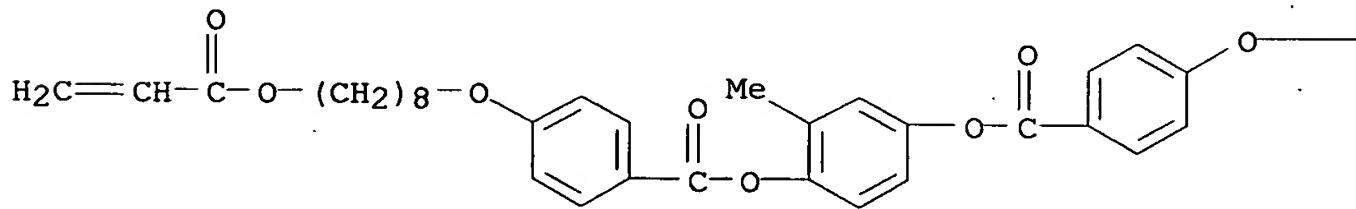
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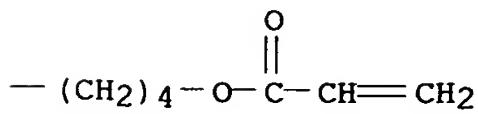
RN 172258-15-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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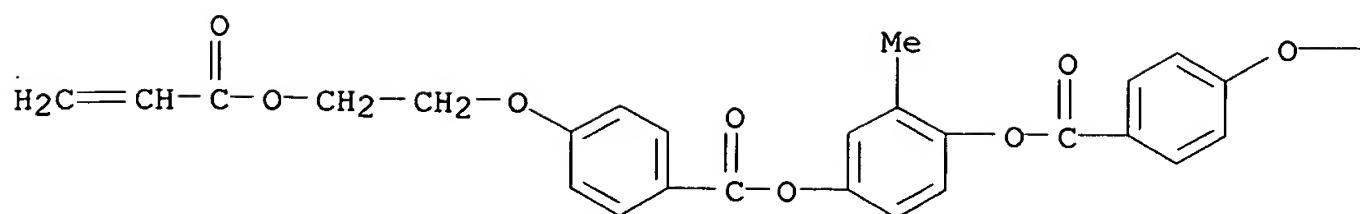
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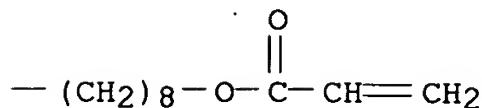
RN 172258-28-5 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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IT 172257-71-5 172257-72-6 172257-76-0  
172257-83-9 172257-86-2 172257-87-3  
172257-96-4 172257-97-5 172258-13-8  
172258-14-9 172258-19-4 172258-20-7  
172258-26-3 172258-27-4 172339-26-3  
172339-28-5 172339-29-6 172339-30-9  
172339-31-0 172339-32-1 172339-33-2  
172339-34-3 172339-35-4 172339-37-6  
172339-38-7 172339-39-8 172339-40-1  
172339-41-2 172487-01-3 172931-27-0  
172931-28-1

RL: NUU (Other use, unclassified); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(properties and uses of liquid-crystalline polymerizable)

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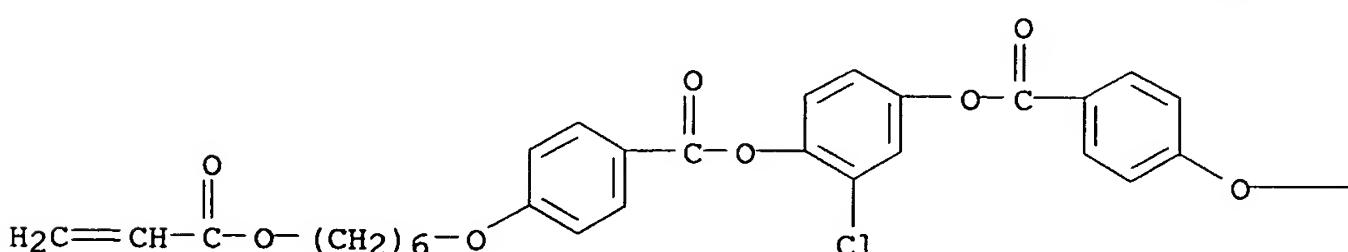
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,  
2-chloro-1,4-phenylene ester, mixt. with 1,4-phenylene  
bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX  
NAME)

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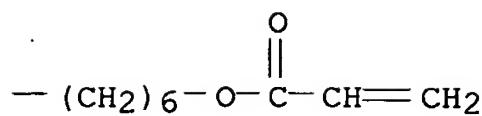
CRN 150809-90-8

CMF C38 H41 Cl O10

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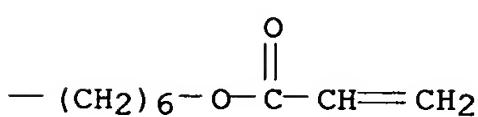
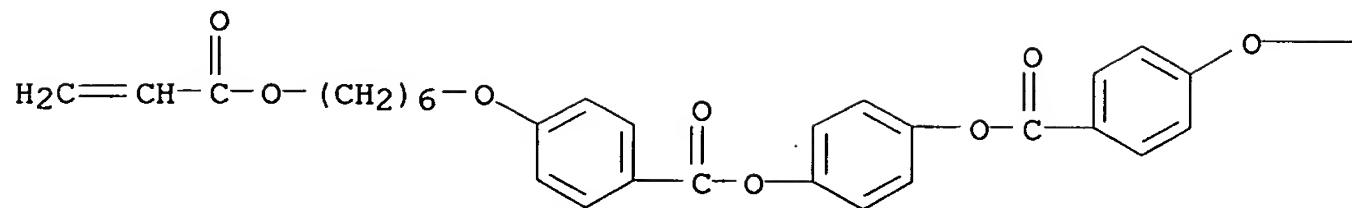
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CM 2

CRN 123864-17-5  
CMF C38 H42 O10

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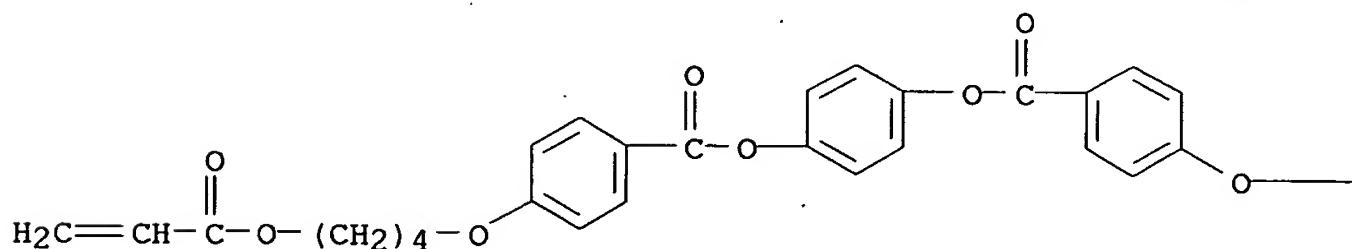


RN 172257-72-6 CAPLUS  
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mixt. with 1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

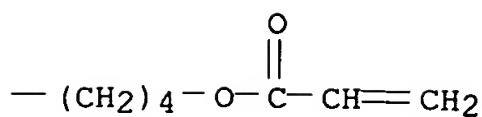
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CMF C34 H34 O10

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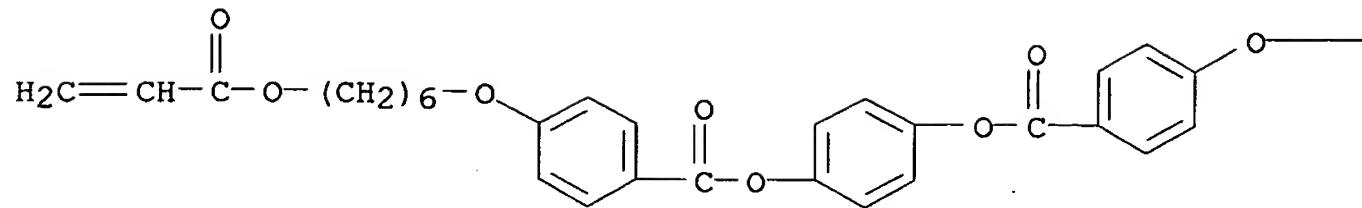
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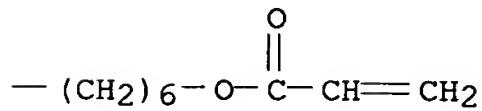
CM 2

CRN 123864-17-5  
CMF C38 H42 O10

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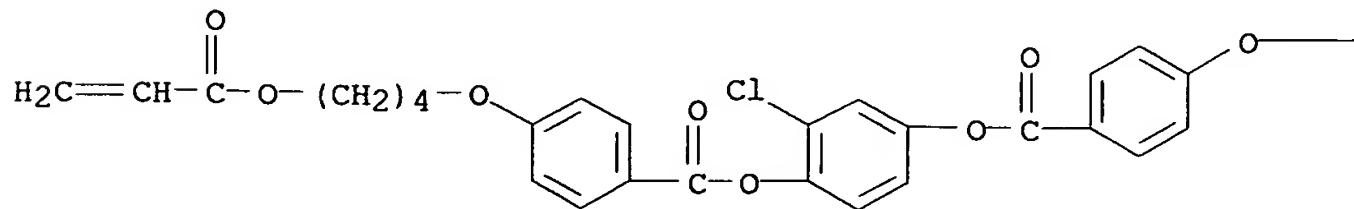


RN 172257-76-0 CAPLUS  
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester, mixt. with 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate] (9CI) (CA INDEX NAME)

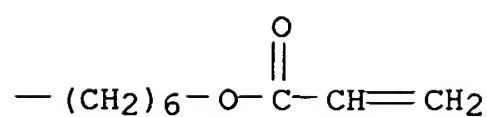
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CMF C36 H37 Cl O10

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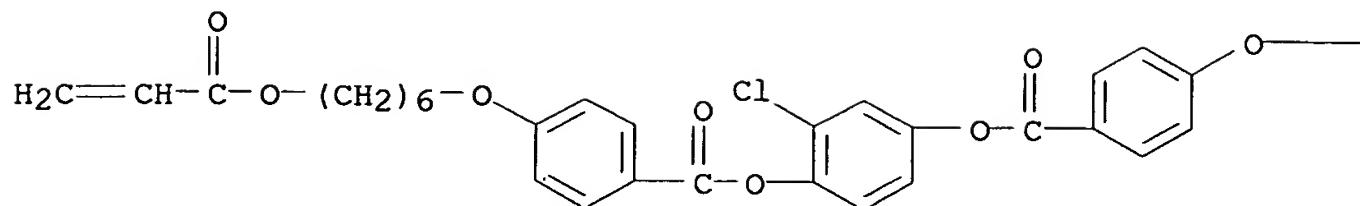
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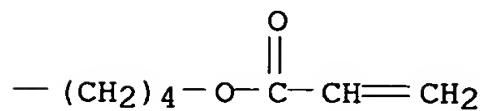
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CMF C36 H37 Cl O10

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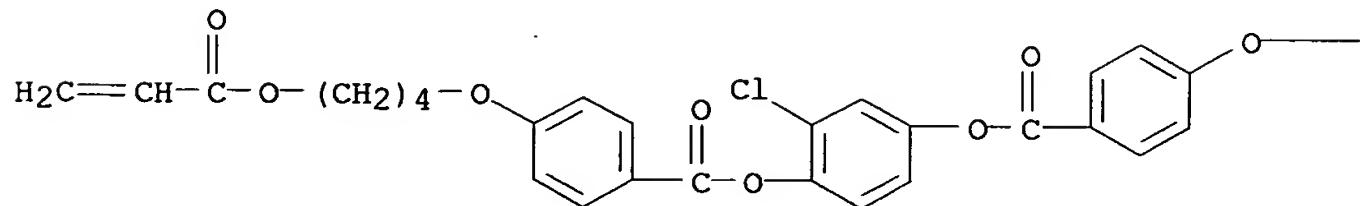
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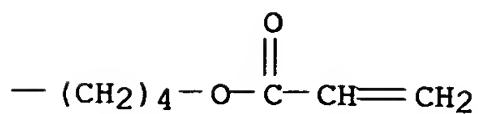
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CMF C34 H33 Cl O10

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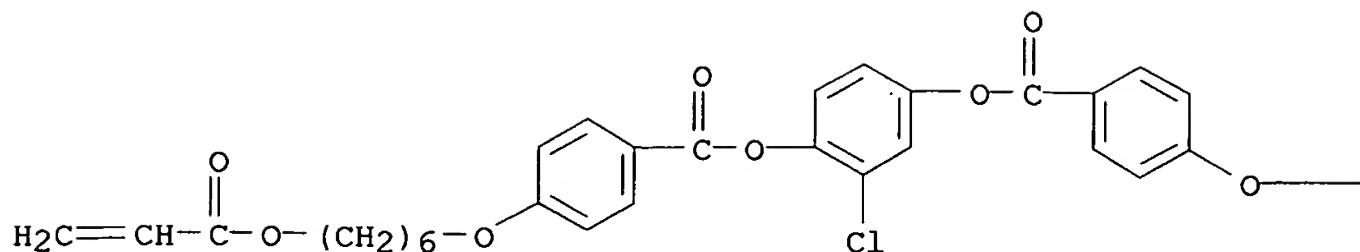
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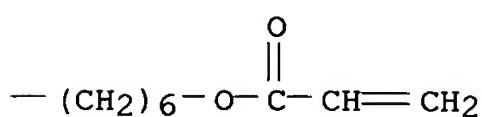
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CRN 150809-90-8  
CMF C38 H41 Cl O10

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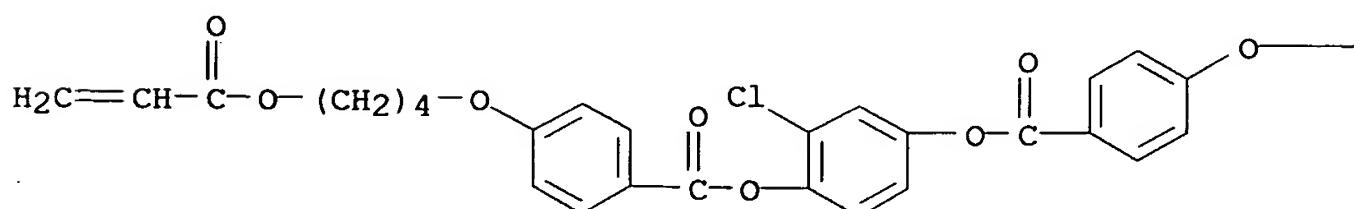


RN 172257-83-9 CAPLUS  
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester, mixt. with 3-chloro-4-[[4-[2-[(1-oxopropenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

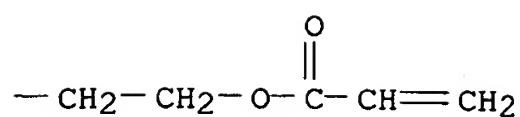
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CRN 172257-82-8  
CMF C32 H29 Cl O10

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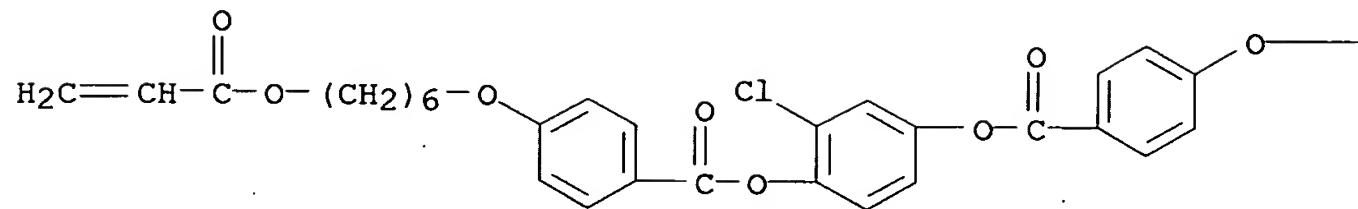
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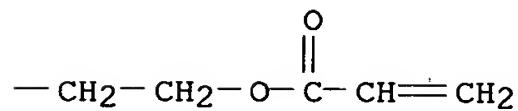
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CRN 172257-81-7  
CMF C34 H33 Cl O10

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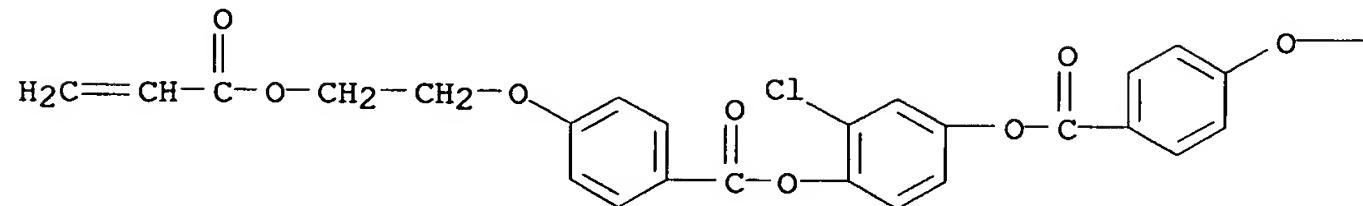
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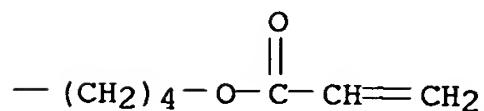
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CMF C32 H29 Cl O10

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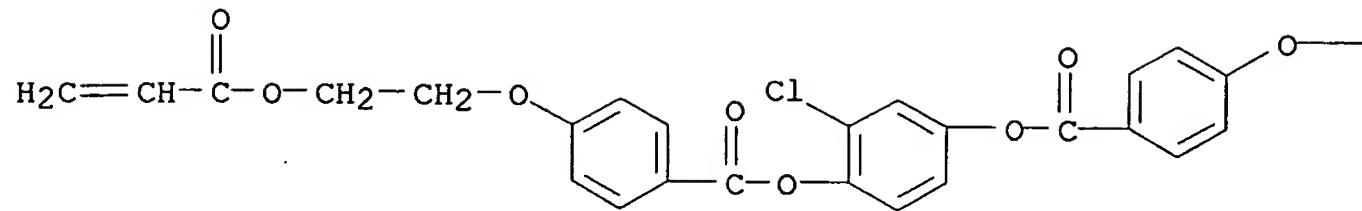
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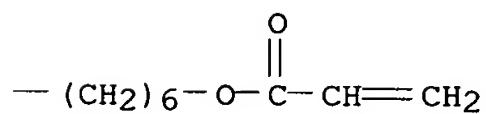
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CMF C34 H33 Cl O10

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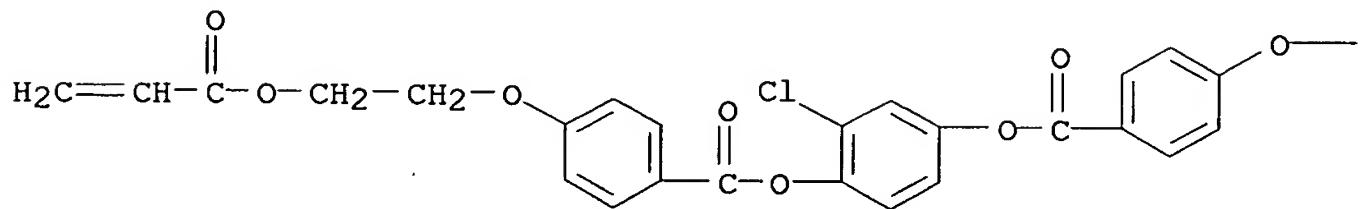
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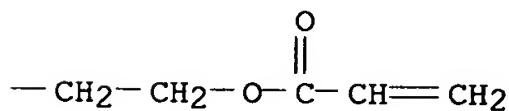
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CMF C30 H25 Cl O10

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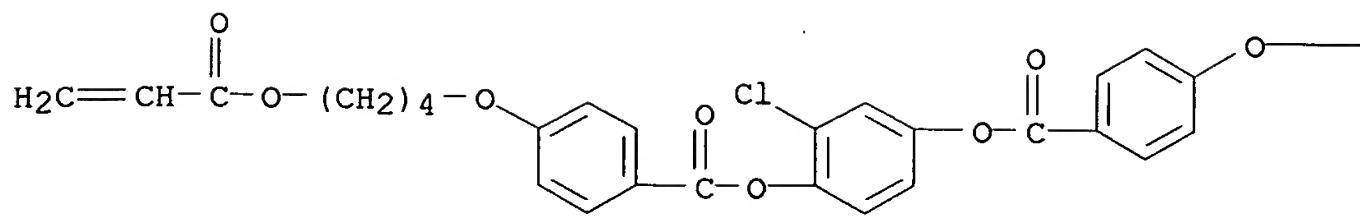
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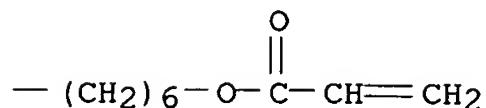
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CMF C36 H37 Cl O10

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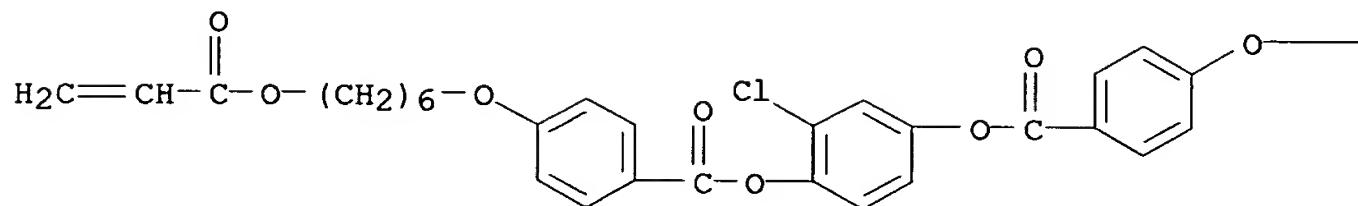
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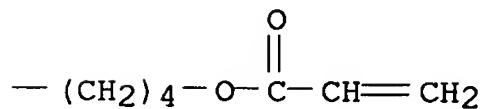
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CRN 172257-74-8  
CMF C36 H37 Cl O10

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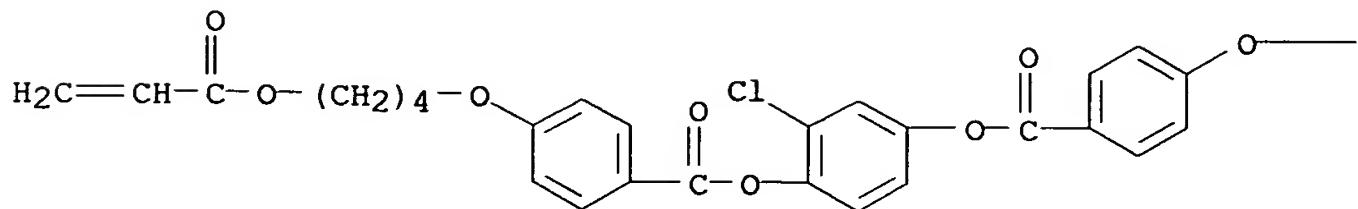
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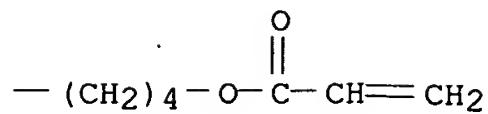
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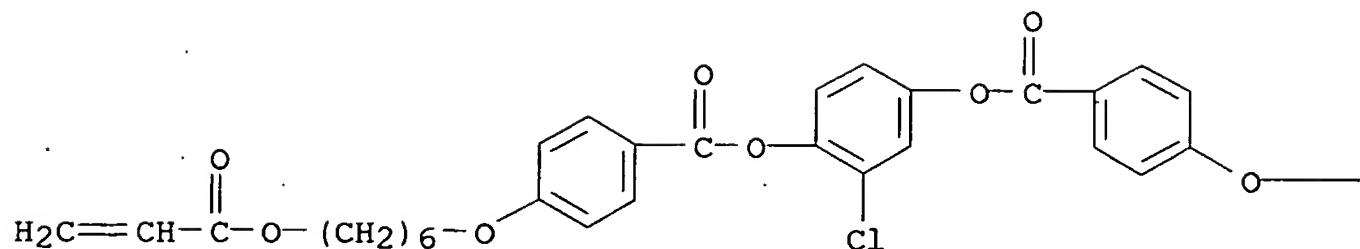
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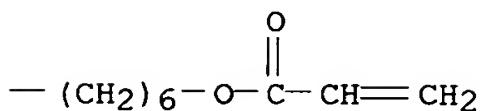
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CRN 150809-90-8  
CMF C38 H41 Cl O10

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RN 172257-86-2 CAPLUS

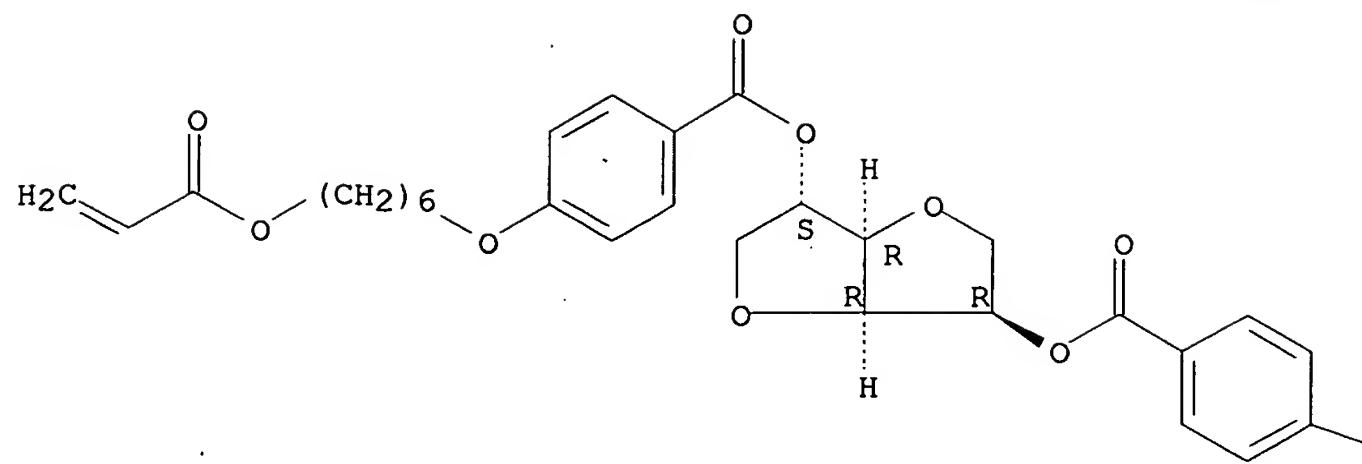
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

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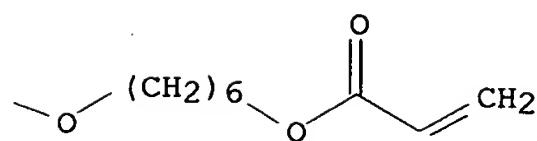
CRN 172257-85-1  
CMF C38 H46 O12

Absolute stereochemistry.

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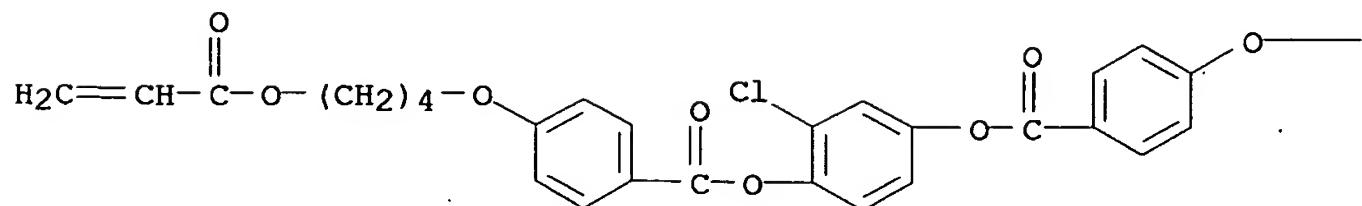
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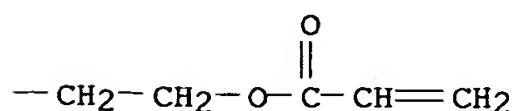
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CMF C32 H29 Cl O10

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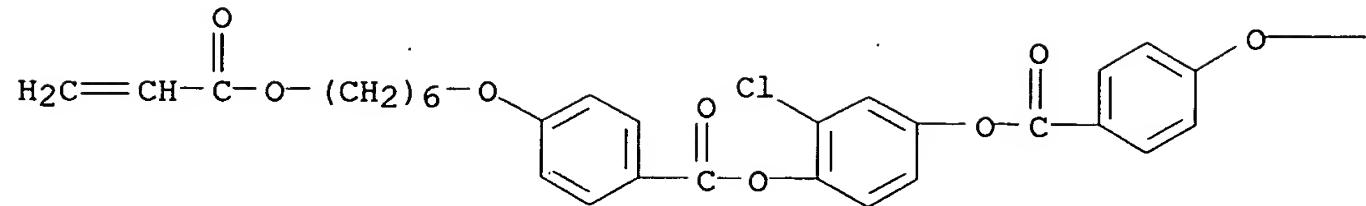
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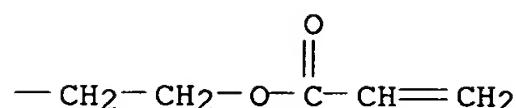
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CMF C34 H33 Cl O10

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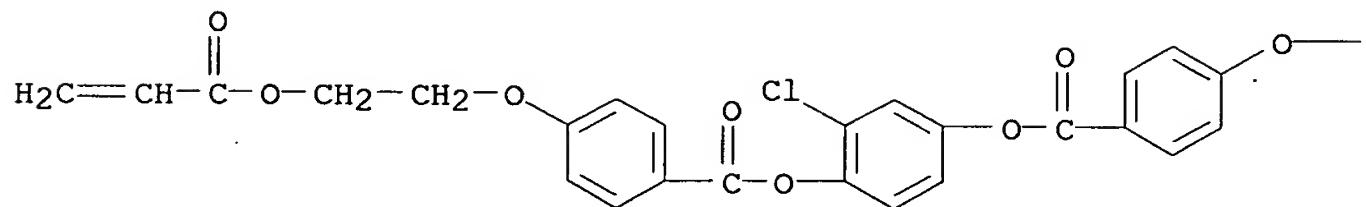
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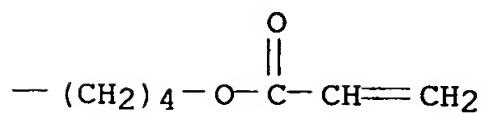
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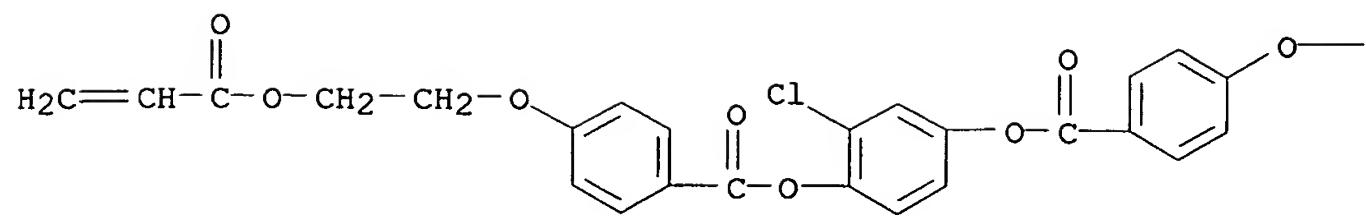
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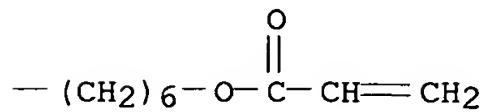
CM 5

CRN 172257-79-3  
CMF C34 H33 Cl O10

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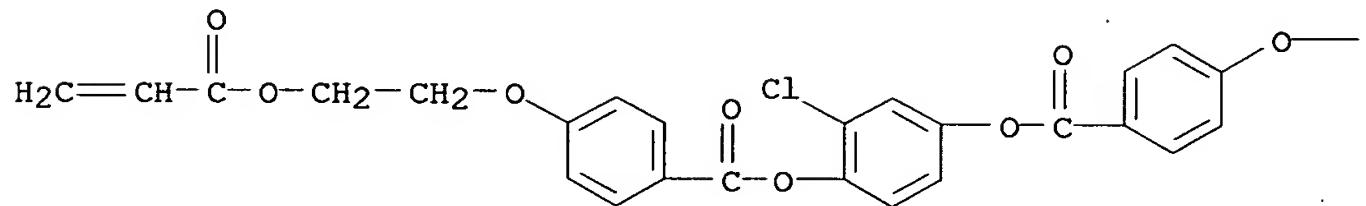
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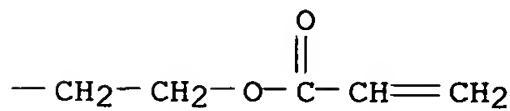
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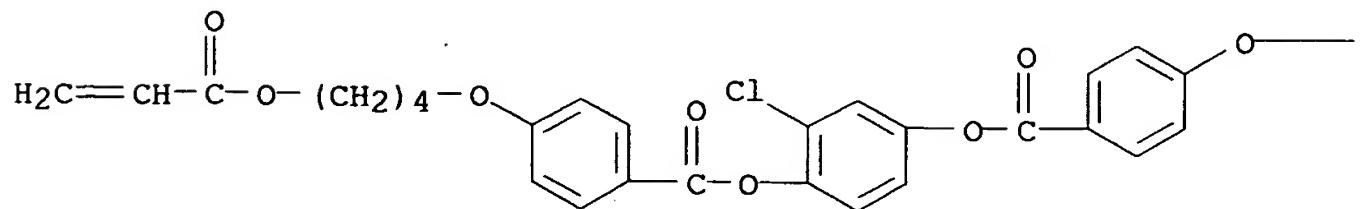
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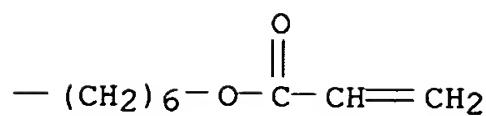
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CMF C36 H37 Cl O10

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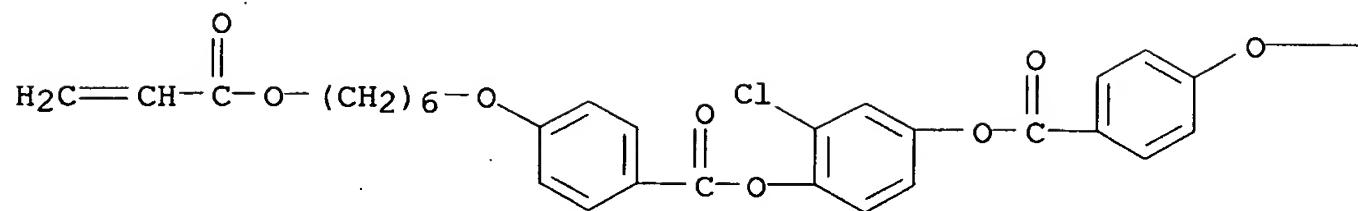
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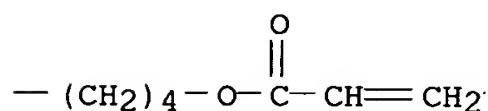
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CMF C36 H37 Cl O10

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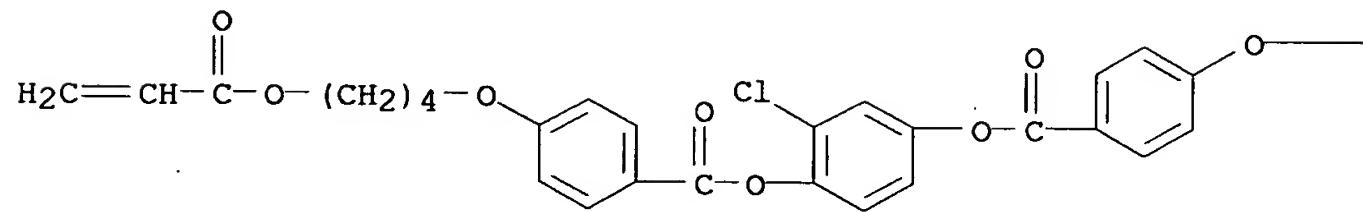
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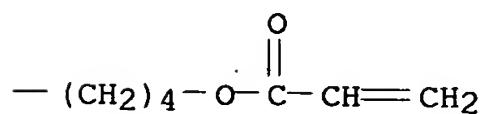
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CRN 172257-73-7  
CMF C34 H33 Cl O10

PAGE 1-A



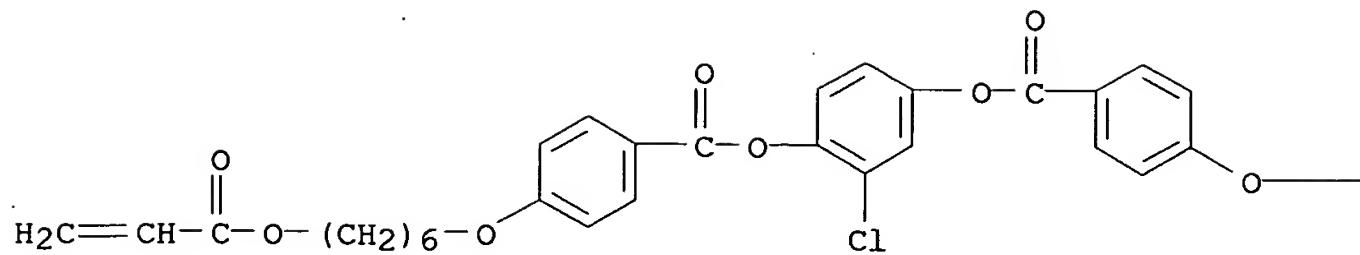
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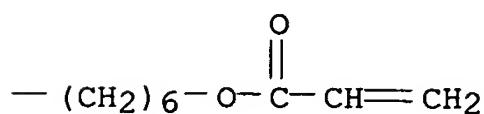
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CRN 150809-90-8  
CMF C38 H41 Cl O10

PAGE 1-A



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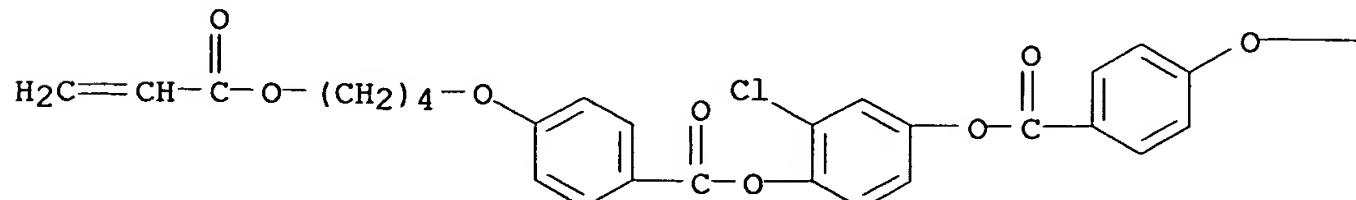


RN 172257-87-3 CAPLUS  
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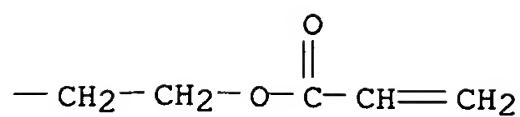
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CMF C32 H29 Cl O10

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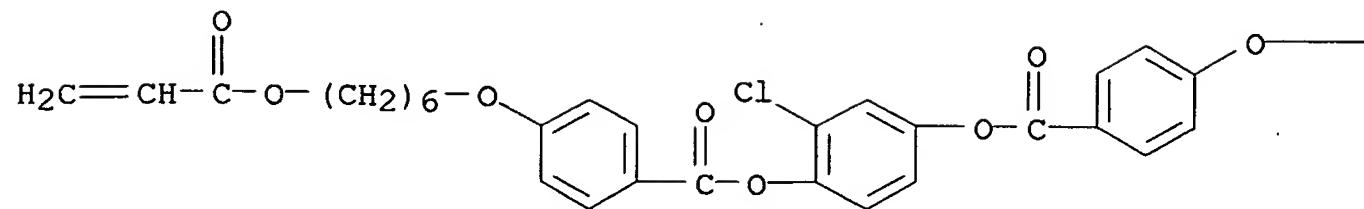
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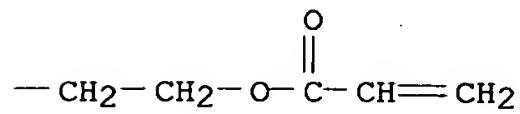
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CMF C34 H33 Cl O10

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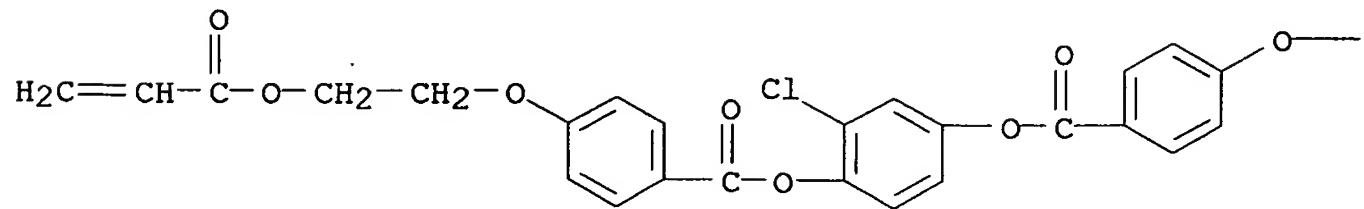
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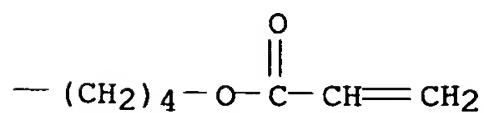
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CMF C32 H29 Cl O10

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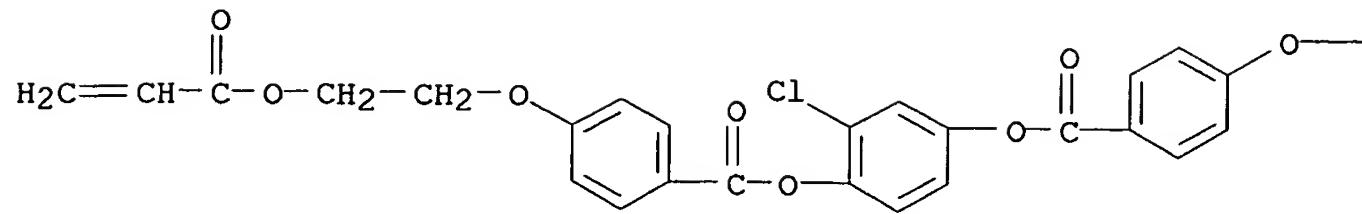
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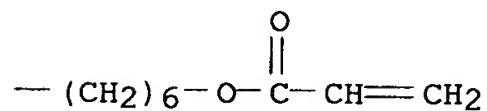
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CMF C34 H33 Cl 010

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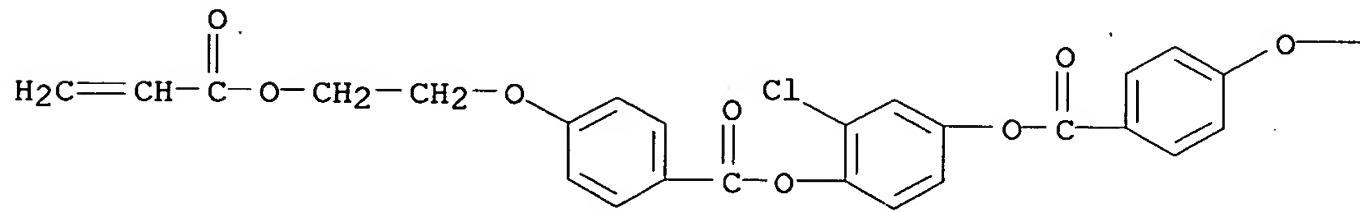
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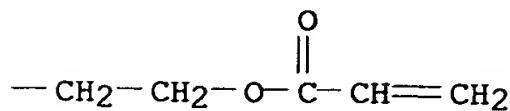
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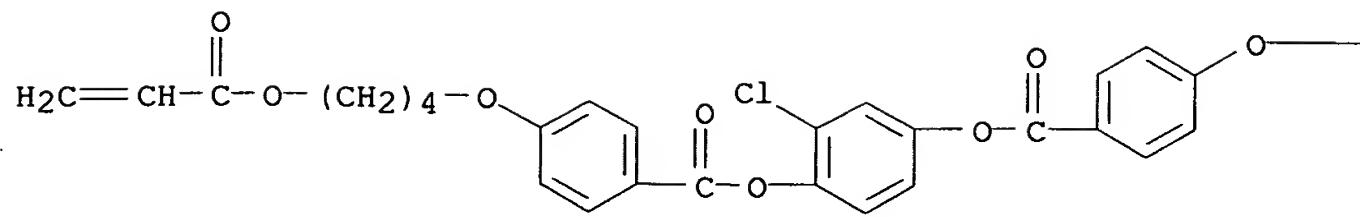
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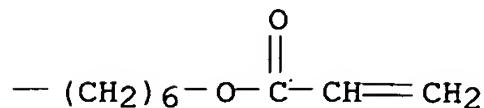
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CMF C36 H37 Cl 010

PAGE 1-A



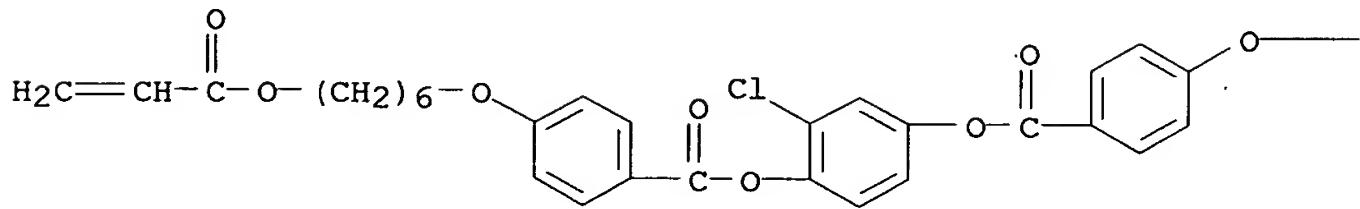
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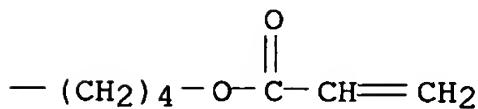
CM 7

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CMF C36 H37 Cl O10

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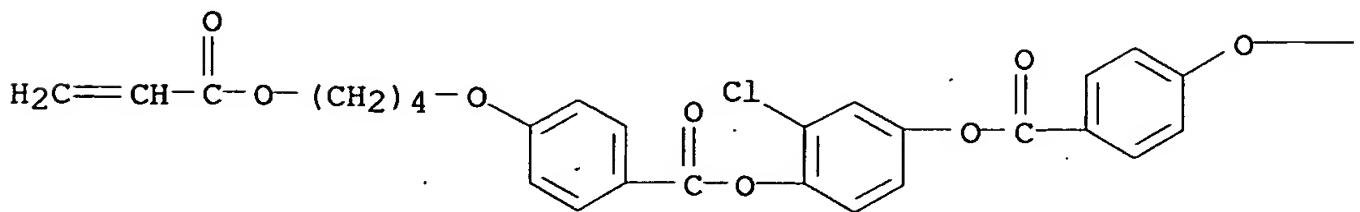
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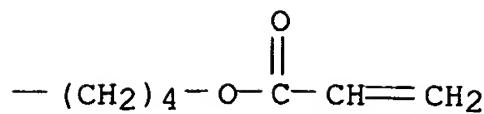
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CMF C34 H33 Cl O10

PAGE 1-A



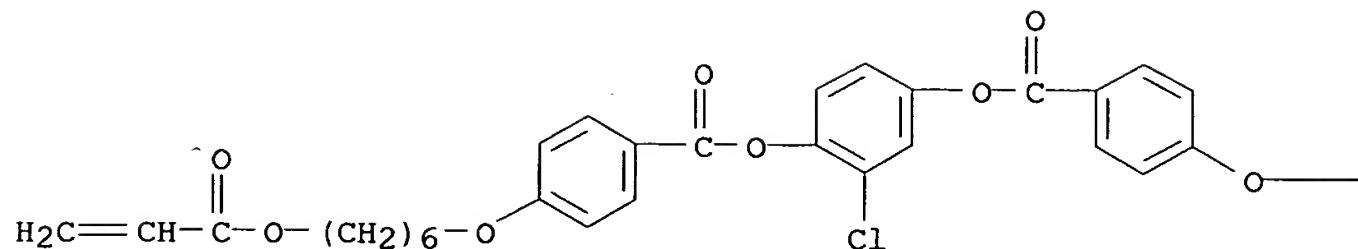
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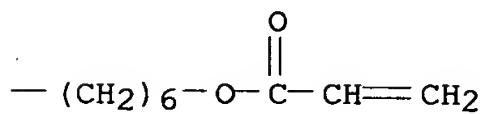
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CMF C38 H41 Cl O10

PAGE 1-A

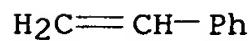


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CM 10

CRN 100-42-5  
CMF C8 H8



RN 172257-96-4 CAPLUS

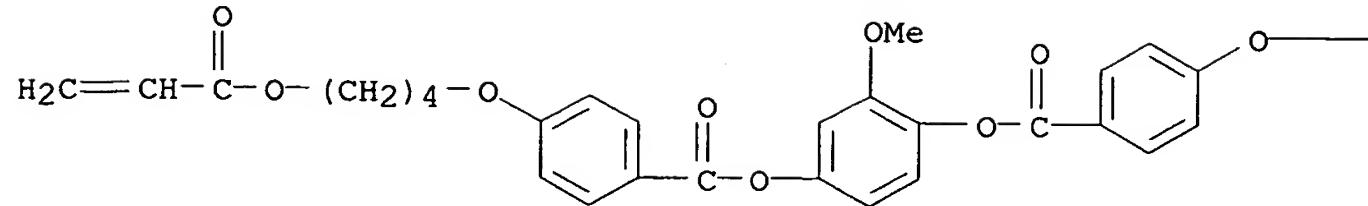
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methoxy-1,4-phenylene ester, mixt. with 2-methoxy-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-methoxy-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-methoxy-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-methoxy-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX)

NAME)

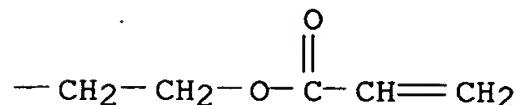
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CMF C33 H32 O11

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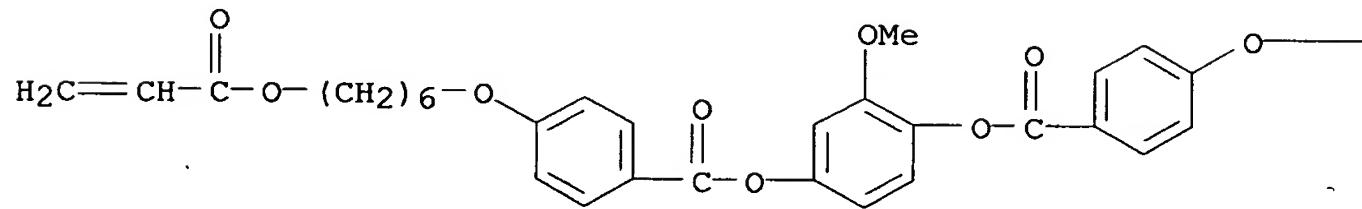
PAGE 1-B



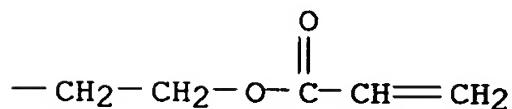
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CMF C35 H36 O11

PAGE 1-A



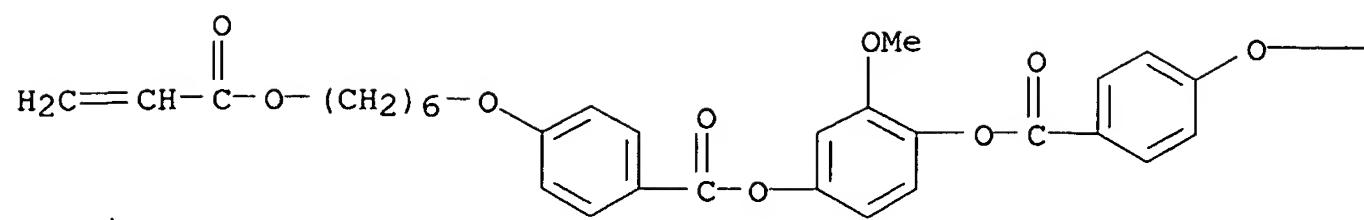
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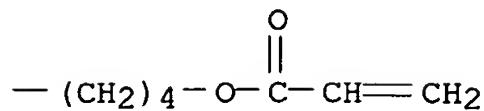
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CRN 172257-93-1  
CMF C37 H40 O11

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PAGE 1-B

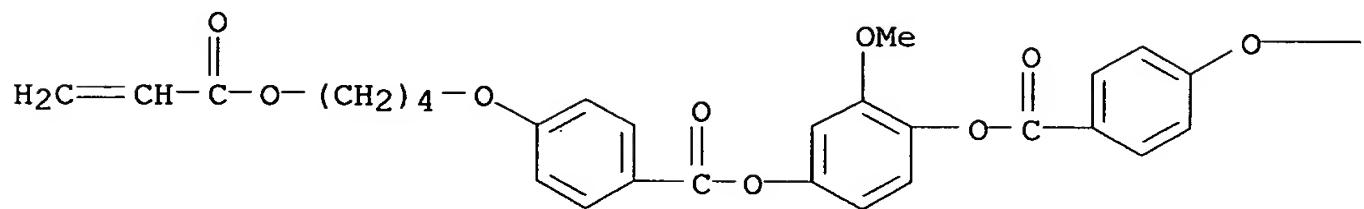


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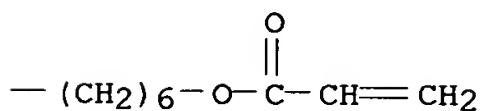
CRN 172257-92-0

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PAGE 1-B

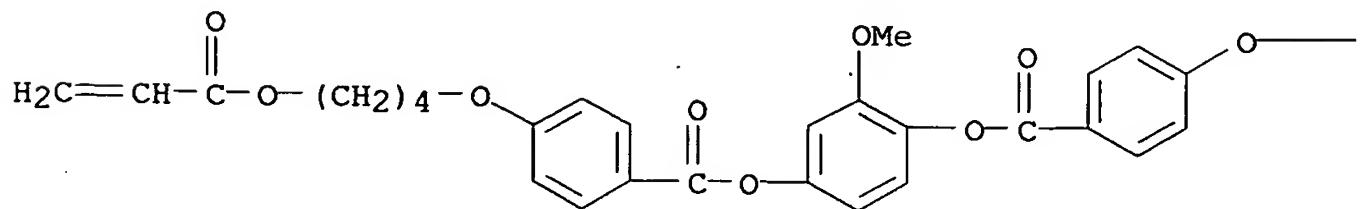


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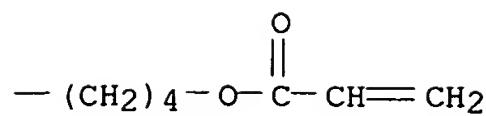
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CMF C35 H36 O11

PAGE 1-A



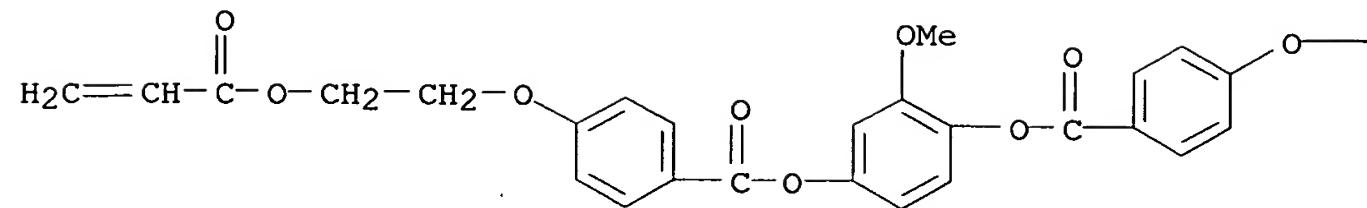
PAGE 1-B



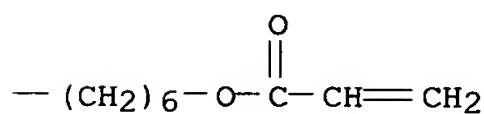
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CMF C35 H36 O11

PAGE 1-A



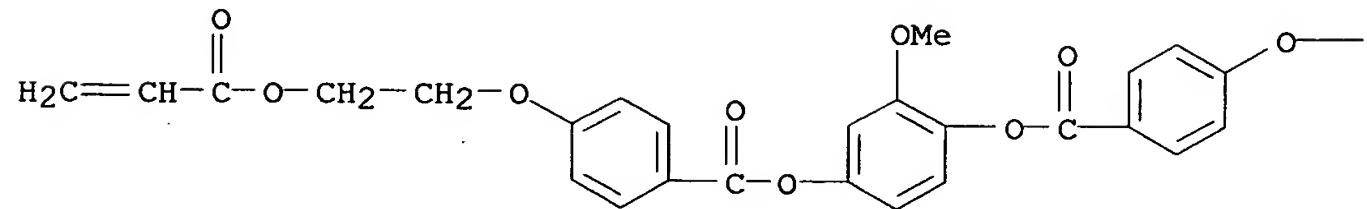
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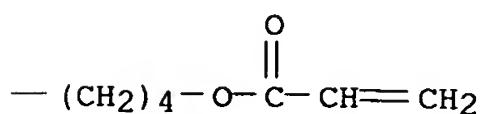
CM 7

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CMF C33 H32 O11

PAGE 1-A



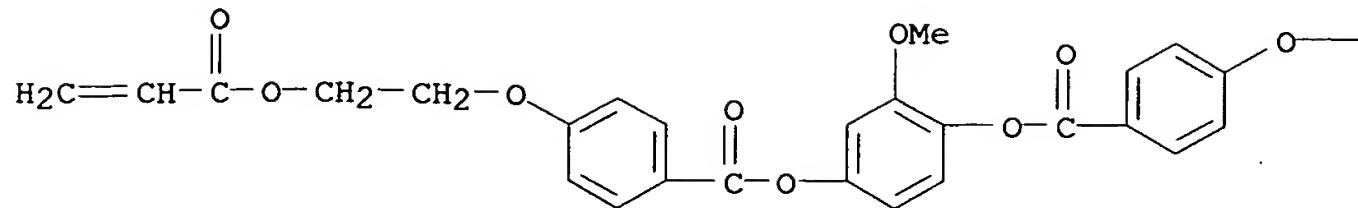
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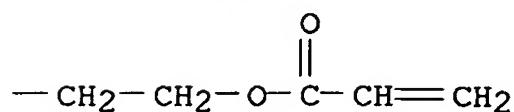
CM 8

CRN 172257-88-4  
CMF C31 H28 O11

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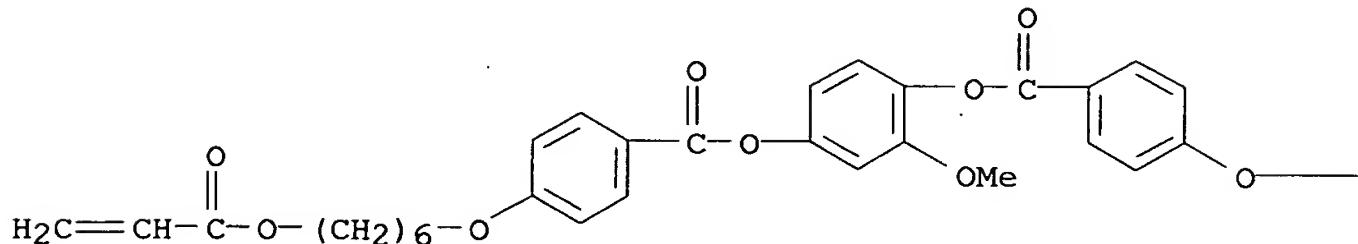
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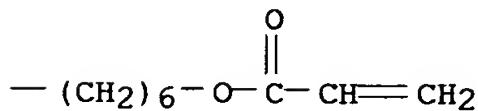
CM 9

CRN 151518-96-6  
CMF C39 H44 O11

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RN 172257-97-5 CAPLUS

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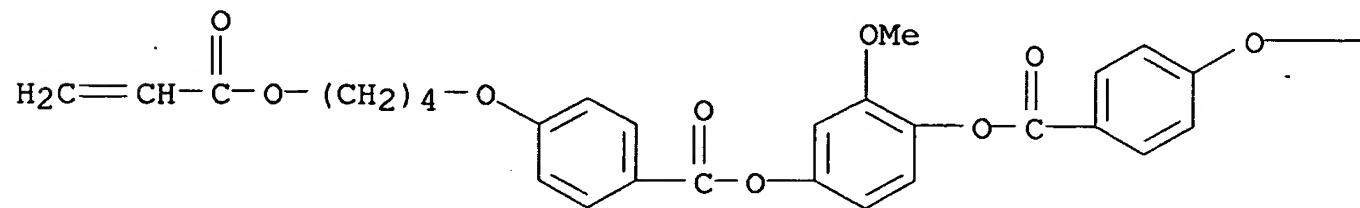
propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-methoxy-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-methoxy-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-methoxy-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

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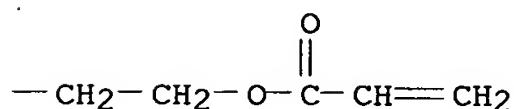
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CMF C33 H32 O11

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PAGE 1-B

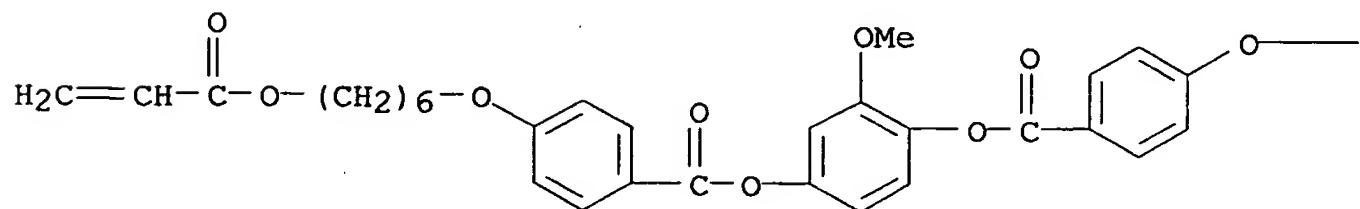


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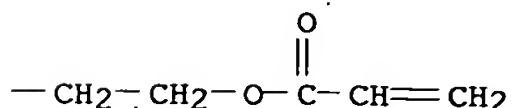
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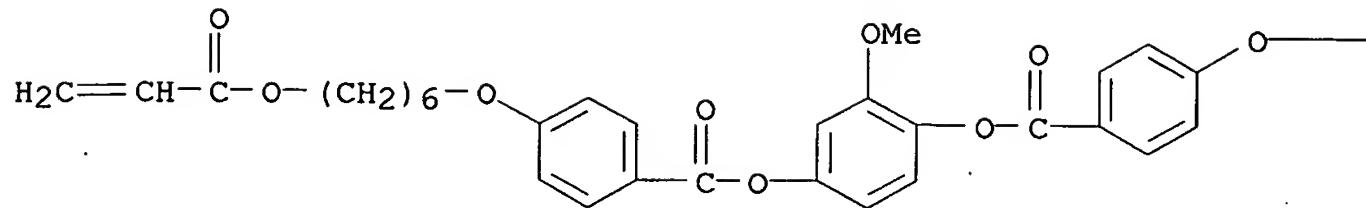
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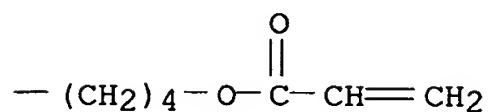
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CMF C37 H40 O11

PAGE 1-A



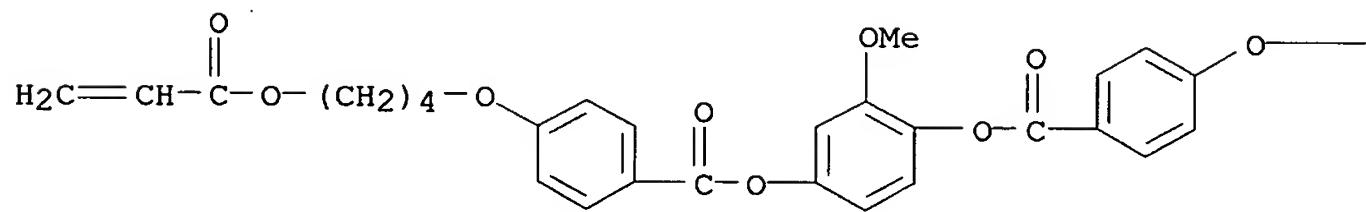
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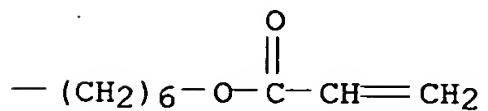
CM 4

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CMF C37 H40 O11

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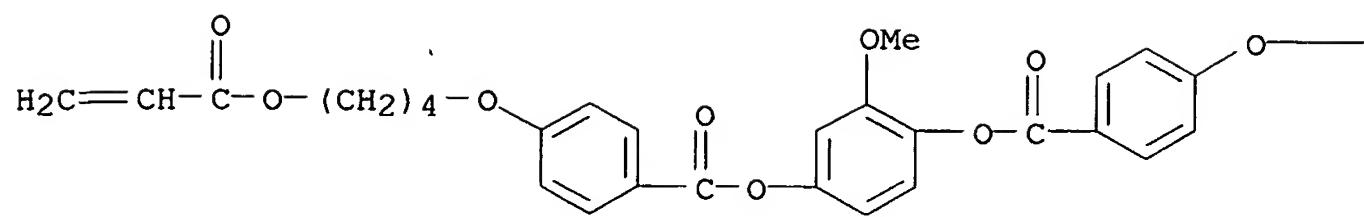
PAGE 1-B



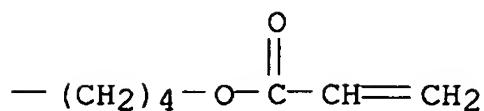
CM 5

CRN 172257-91-9  
CMF C35 H36 O11

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PAGE 1-B

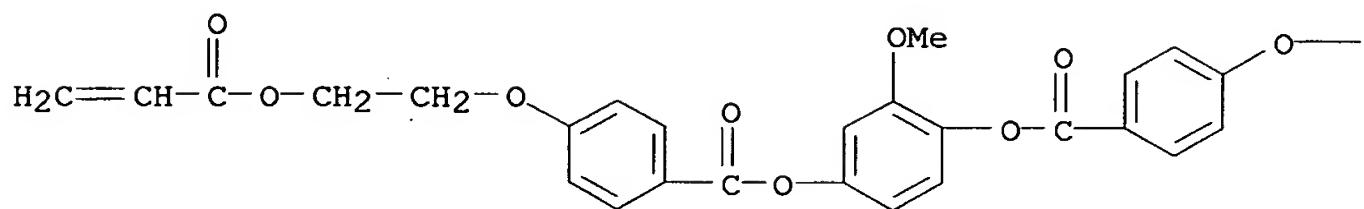


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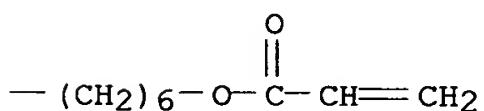
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CMF C35 H36 O11

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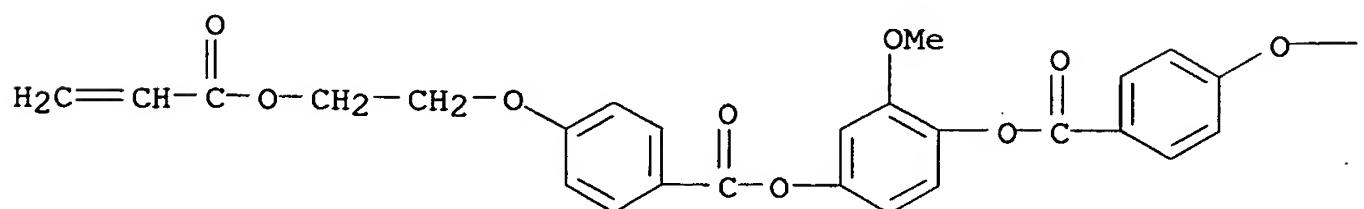


CM 7

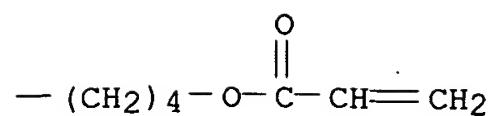
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CMF C33 H32 O11

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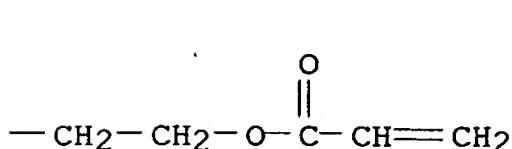
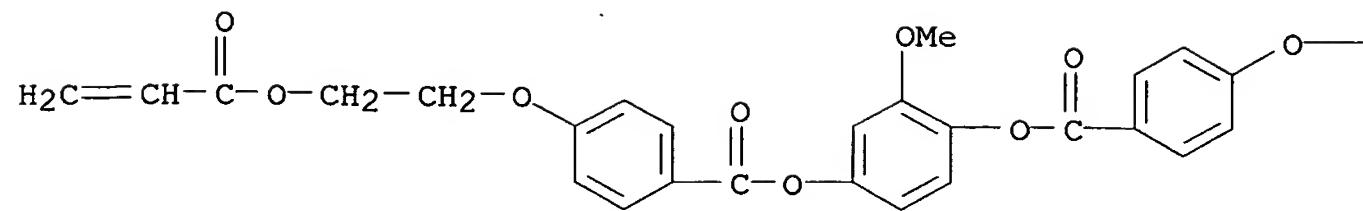
PAGE 1-B



CM 8

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CMF C31 H28 O11

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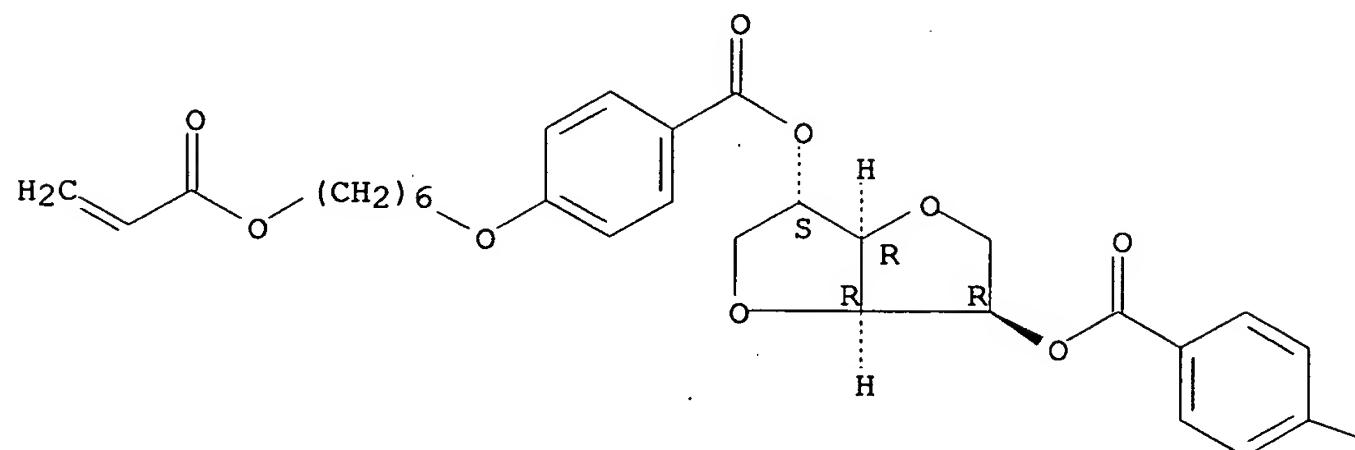


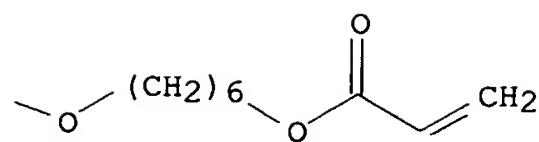
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CRN 172257-85-1  
CMF C38 H46 O12

Absolute stereochemistry.

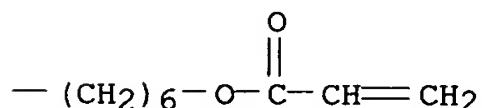
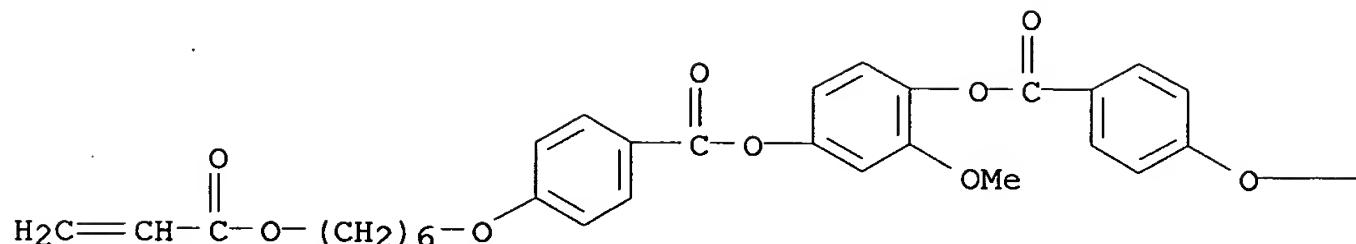
PAGE 1-A





CM 10

CRN 151518-96-6  
CMF C39 H44 011



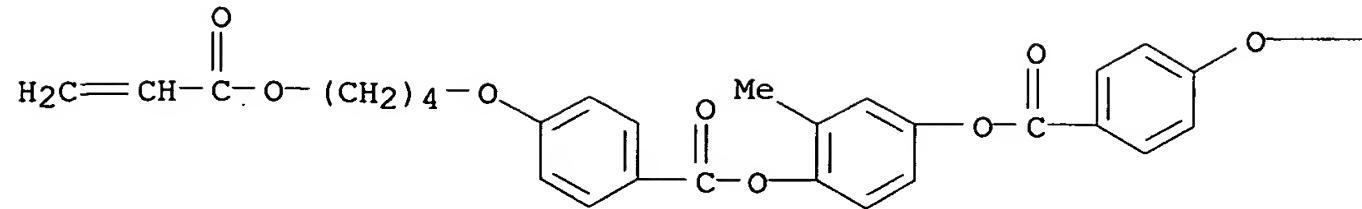
RN 172258-13-8 CAPLUS

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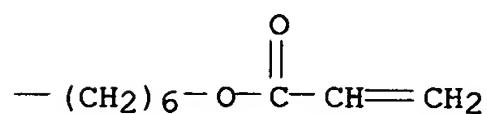
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CMF C37 H40 O10

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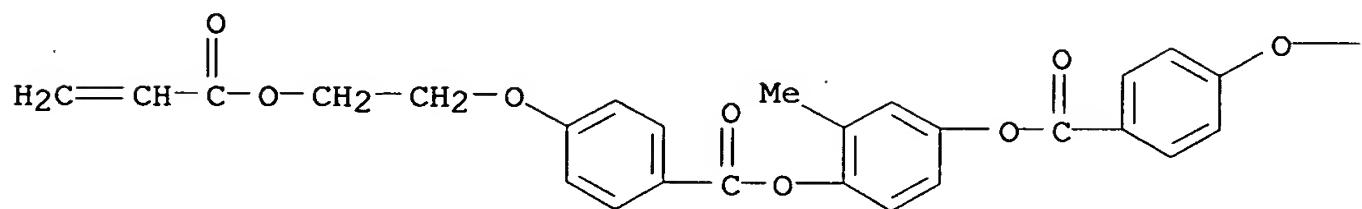
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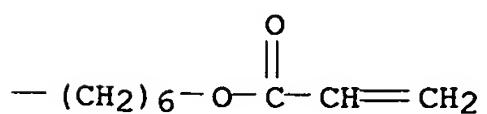
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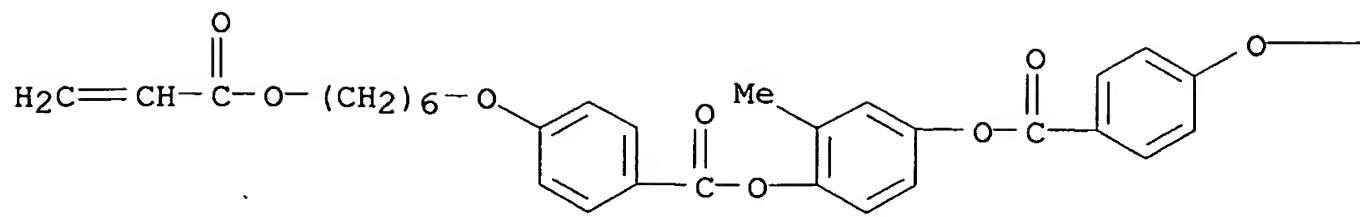
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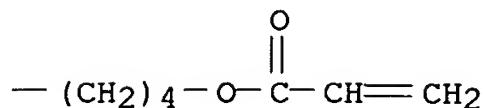
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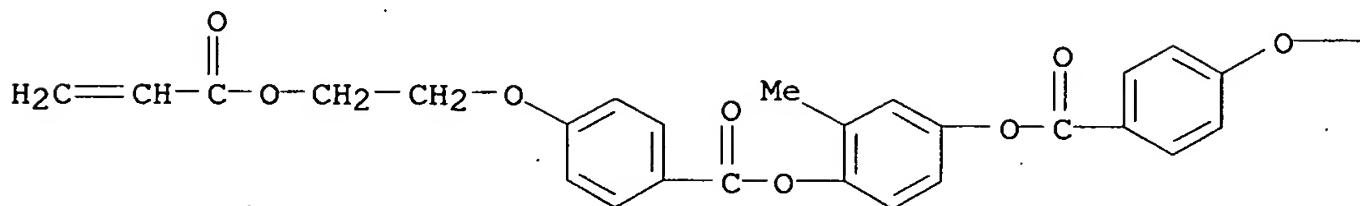
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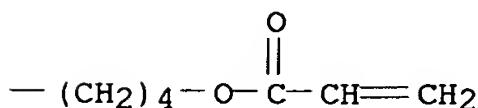
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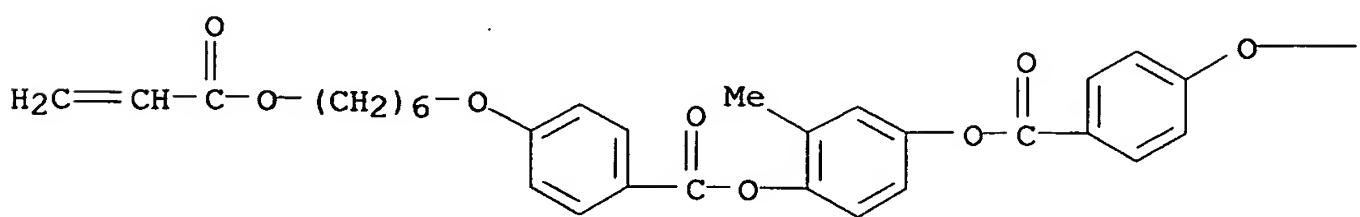
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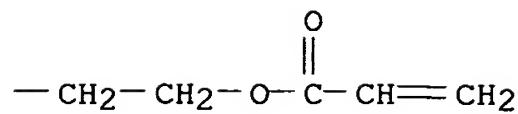
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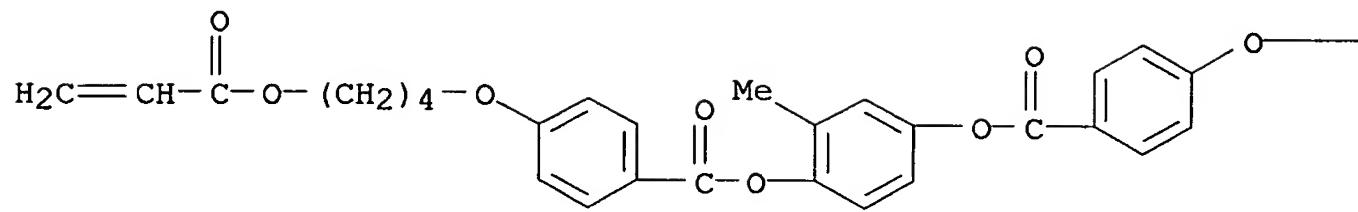
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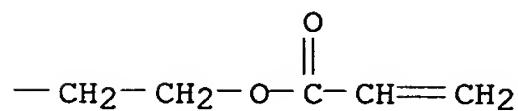
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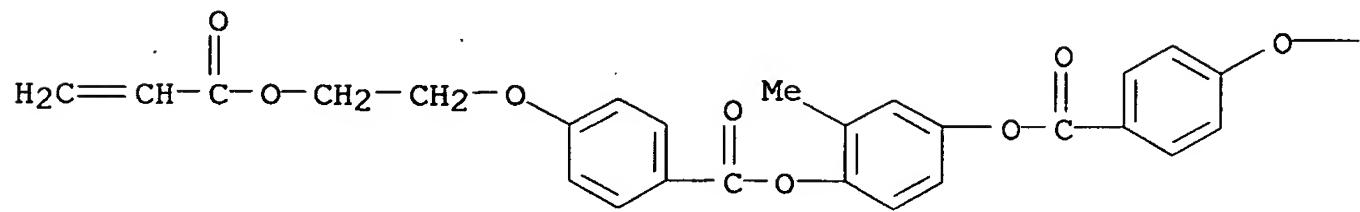
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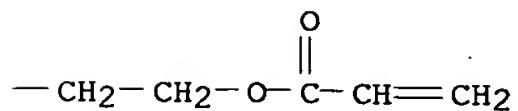
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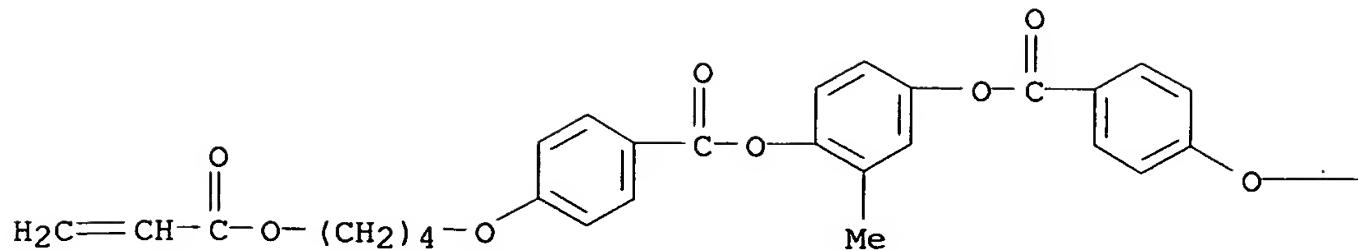
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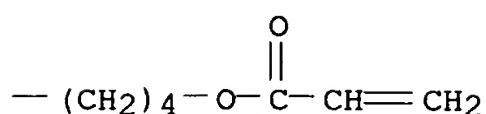
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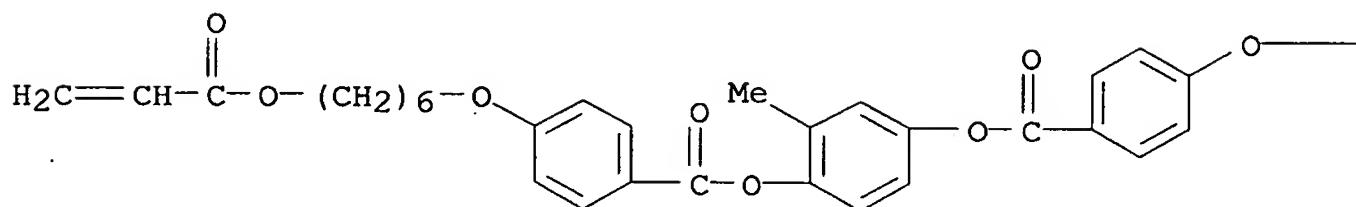
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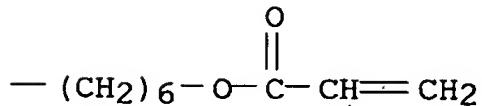
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RN 172258-14-9 CAPLUS

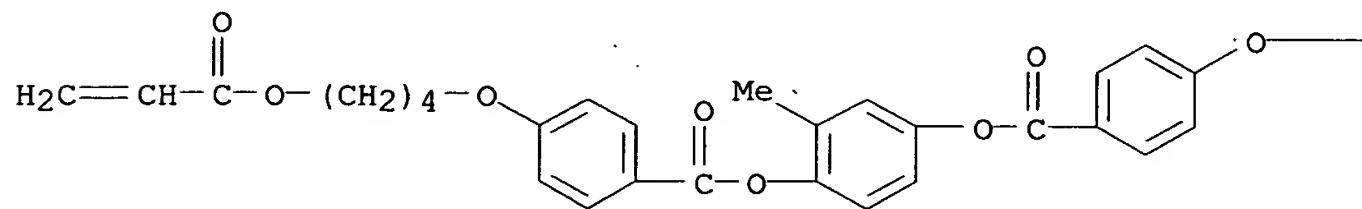
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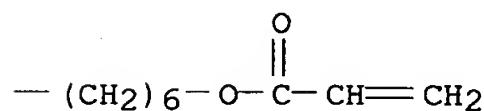
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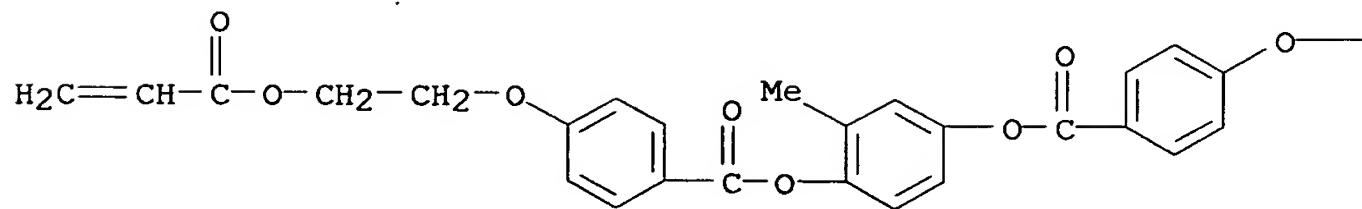
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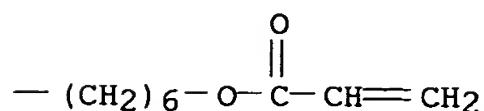
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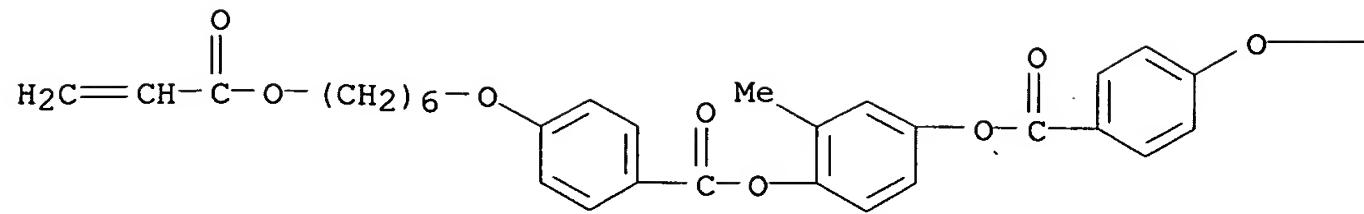
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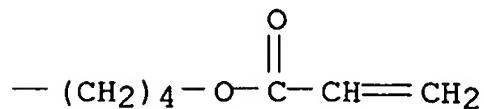
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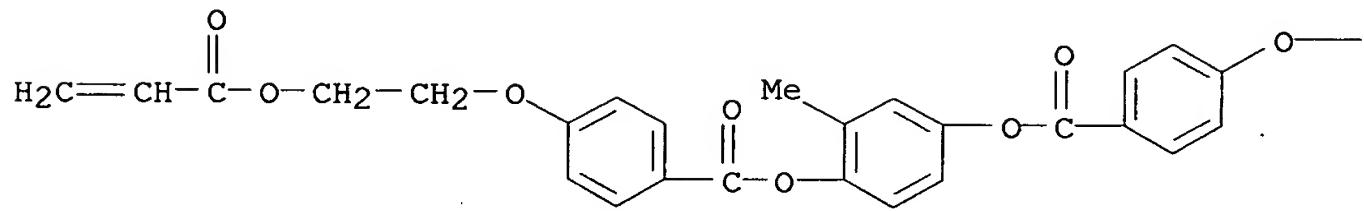
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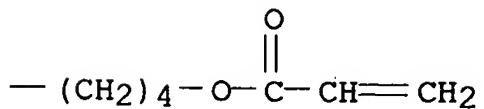
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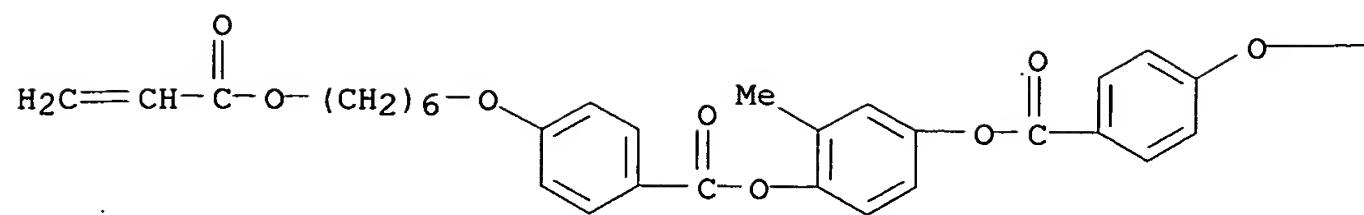
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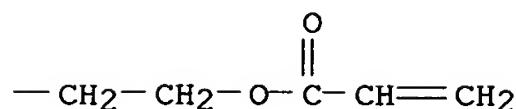
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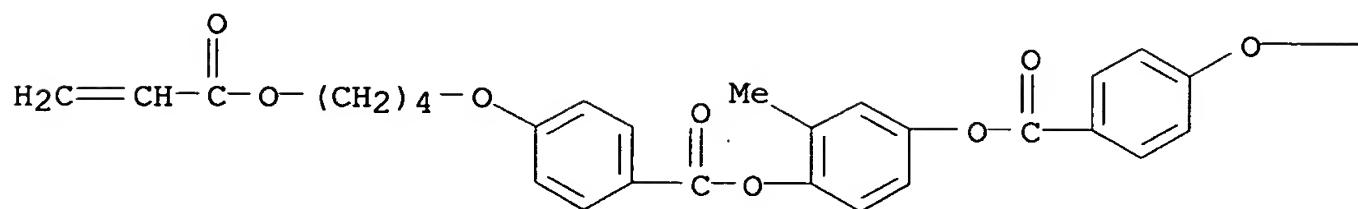
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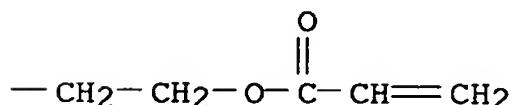
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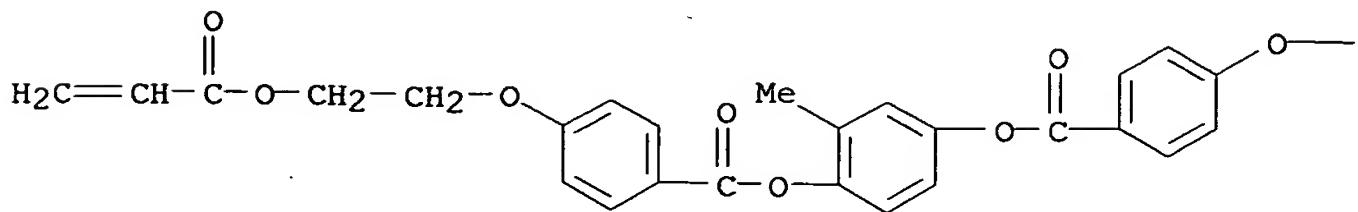
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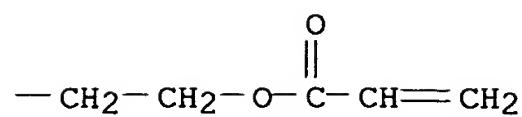
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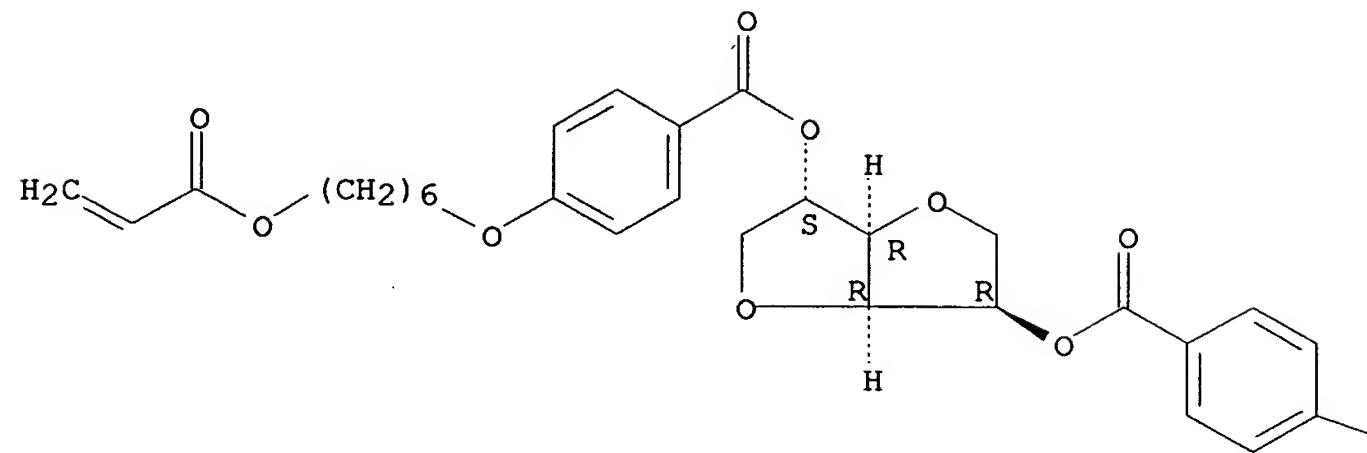


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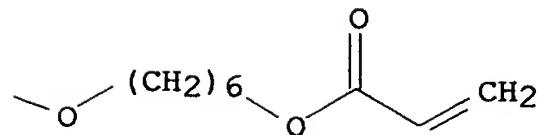
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Absolute stereochemistry.

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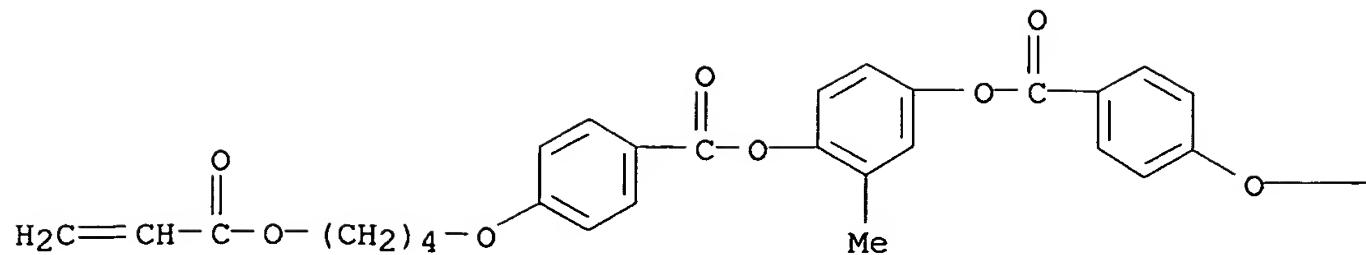
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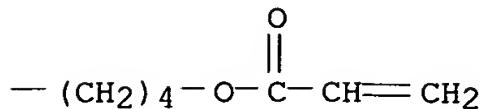
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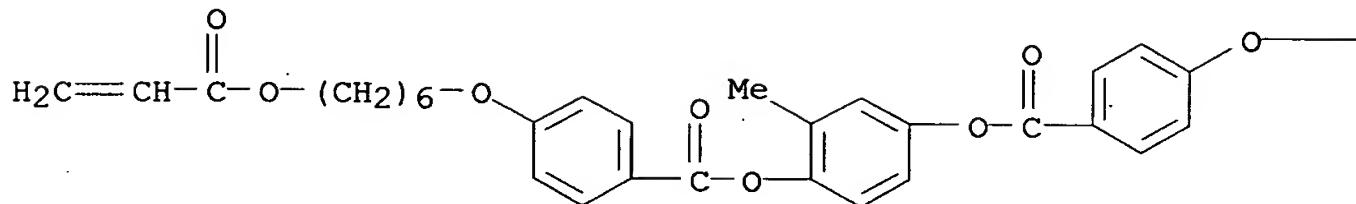
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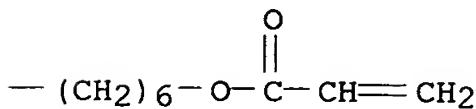
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RN 172258-19-4 CAPLUS

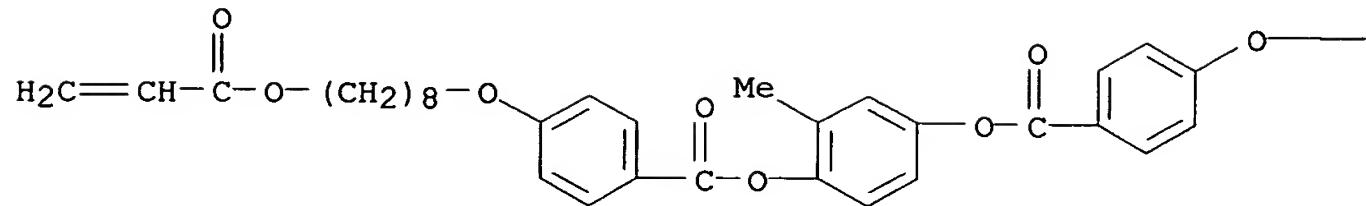
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] (9CI) (CA INDEX NAME)

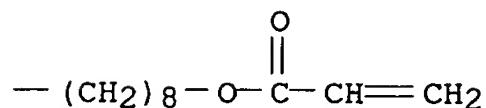
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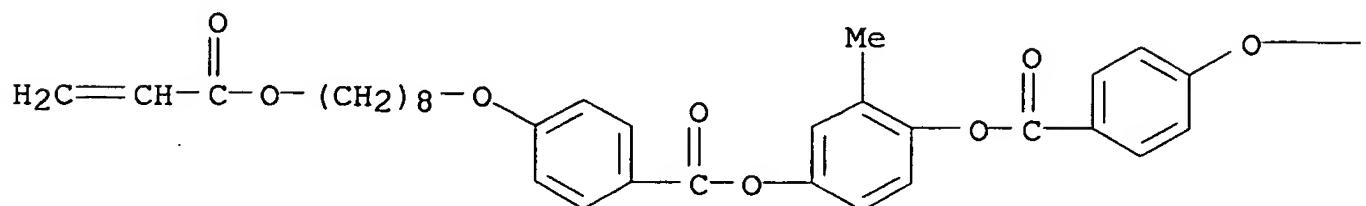
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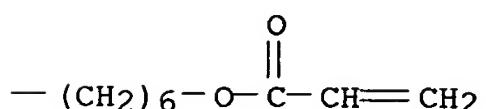
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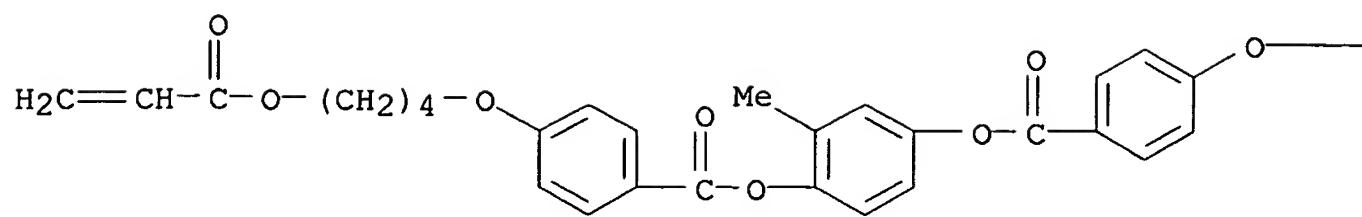
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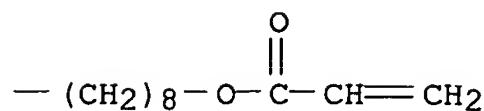
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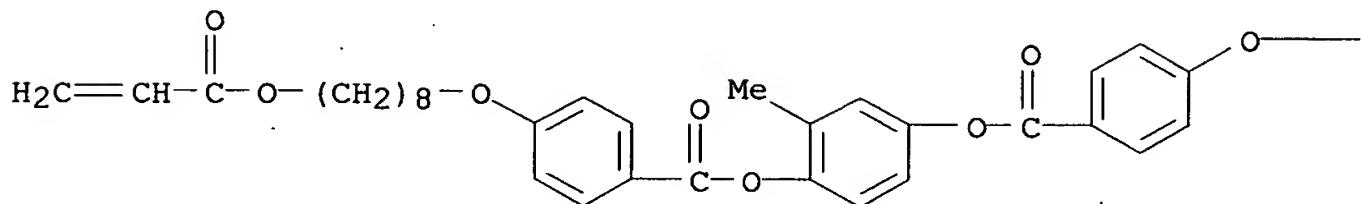
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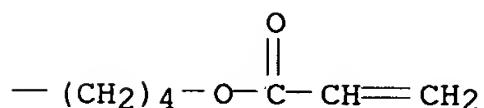
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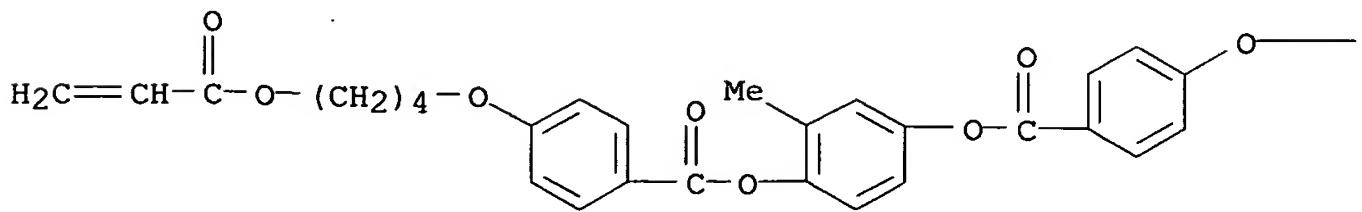
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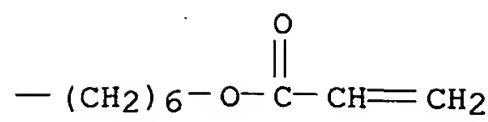
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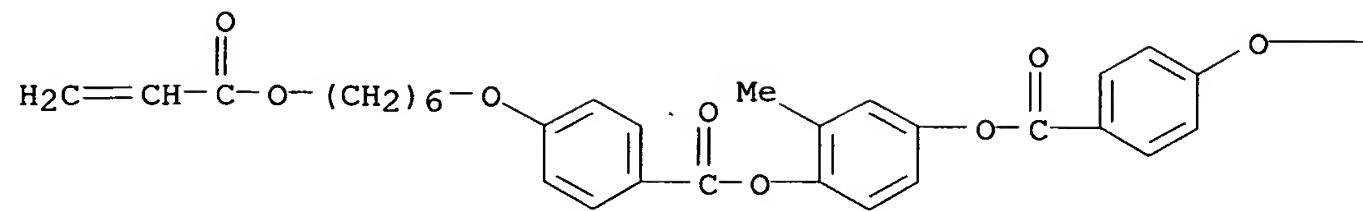
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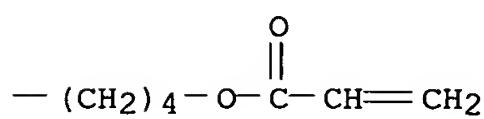
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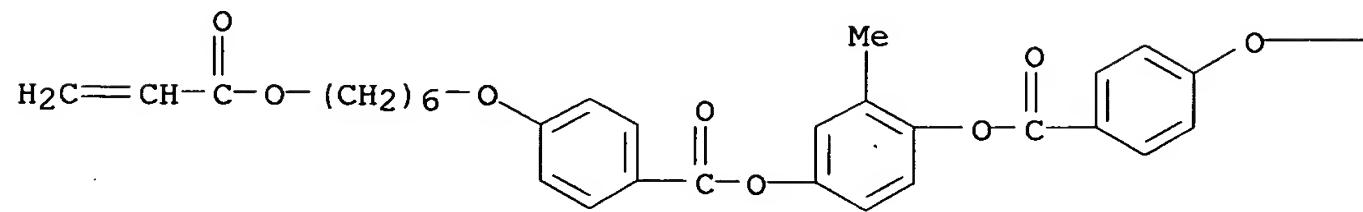
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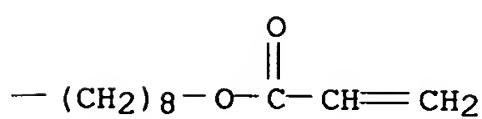
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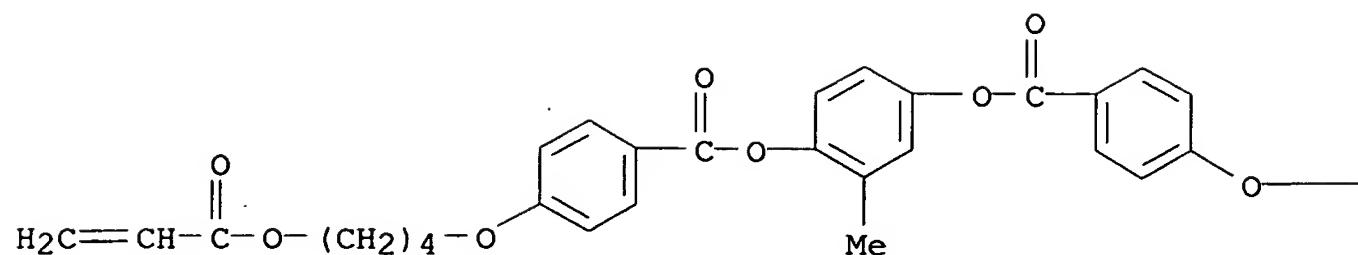
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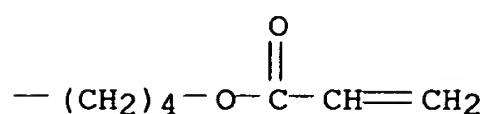
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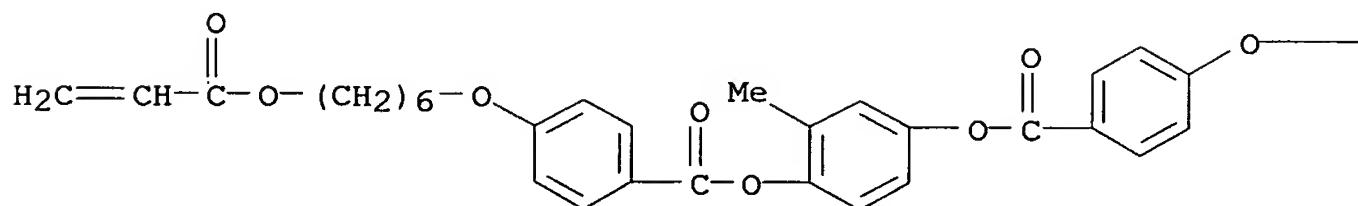
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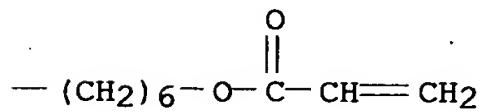
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RN 172258-20-7 CAPLUS

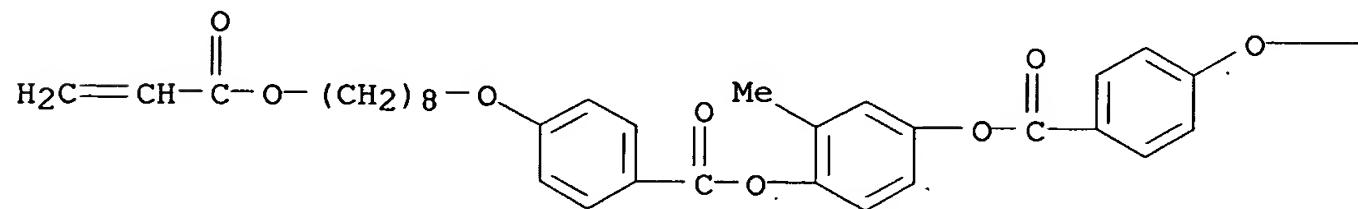
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], mixt. with 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-methyl-4-[[4-[[8-[(1-oxo-2-

propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 2-methyl-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 2-methyl-1,4-phenylene bis[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoate] (9CI) (CA INDEX NAME)

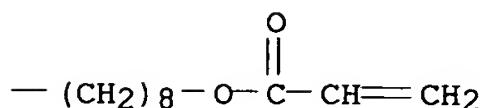
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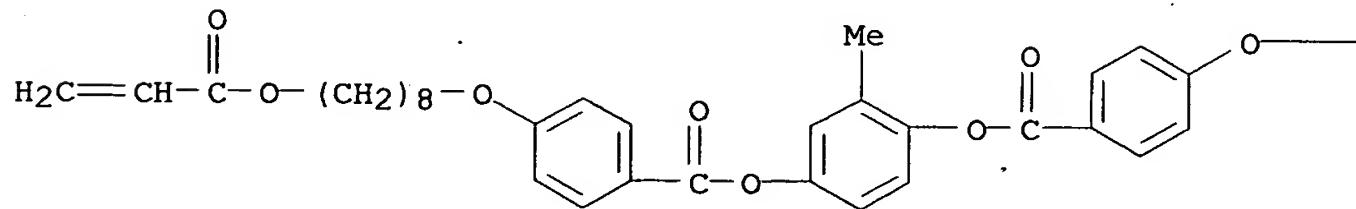
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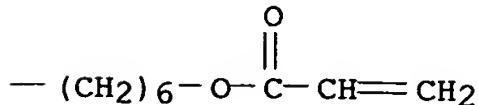
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CRN 172258-17-2  
CMF C41 H48 O10

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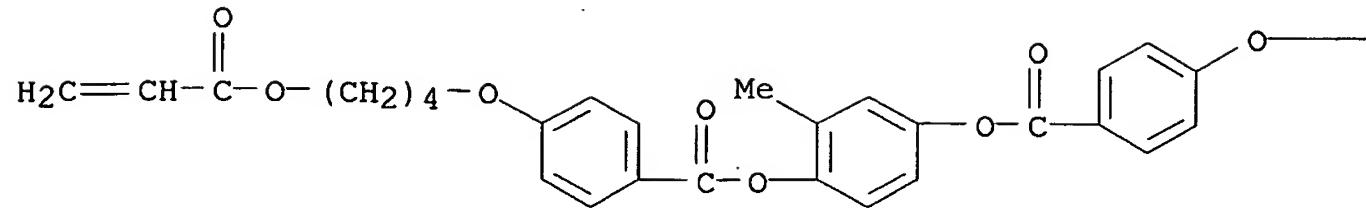
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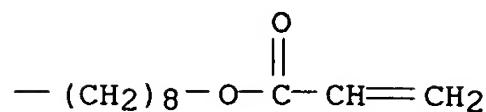
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CMF C39 H44 O10

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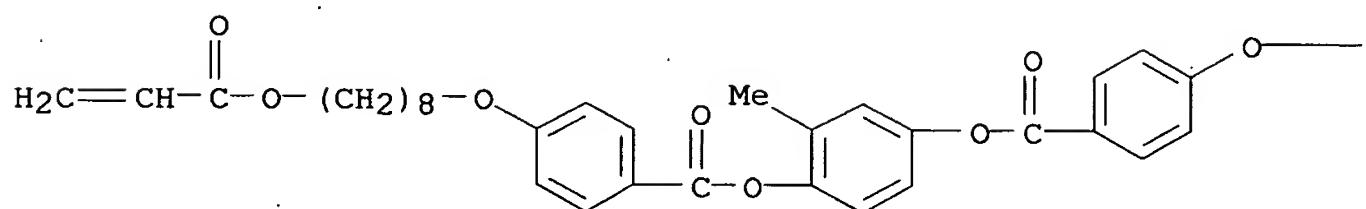
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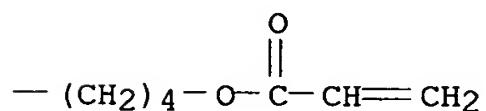
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CRN 172258-15-0  
CMF C39 H44 010

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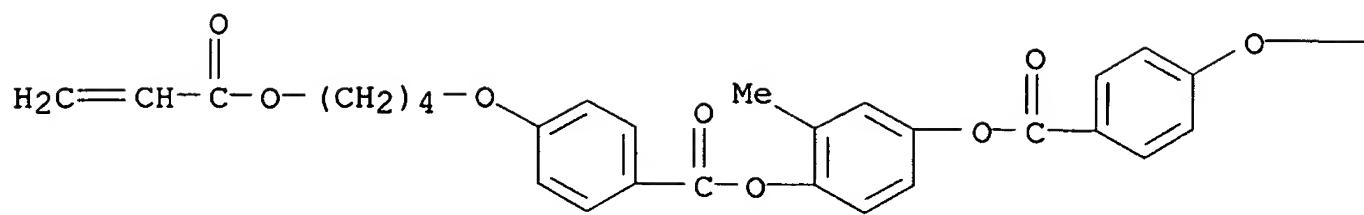
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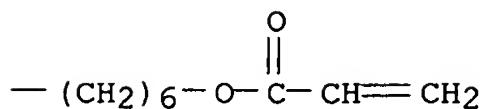
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CRN 172258-12-7  
CMF C37 H40 010

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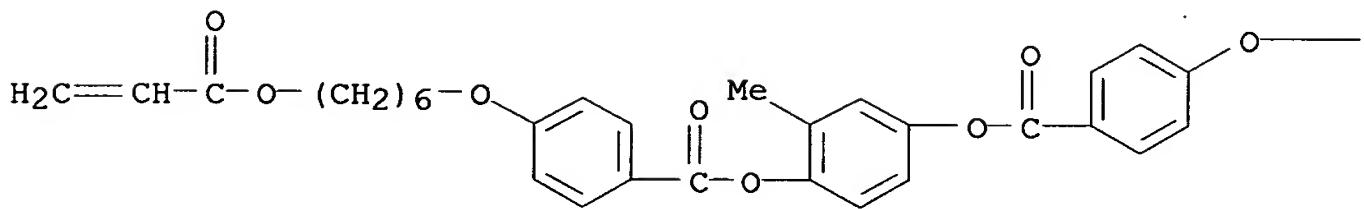


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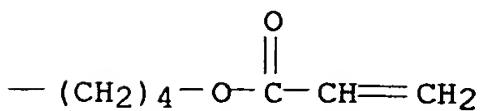
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CMF C37 H40 O10

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PAGE 1-B



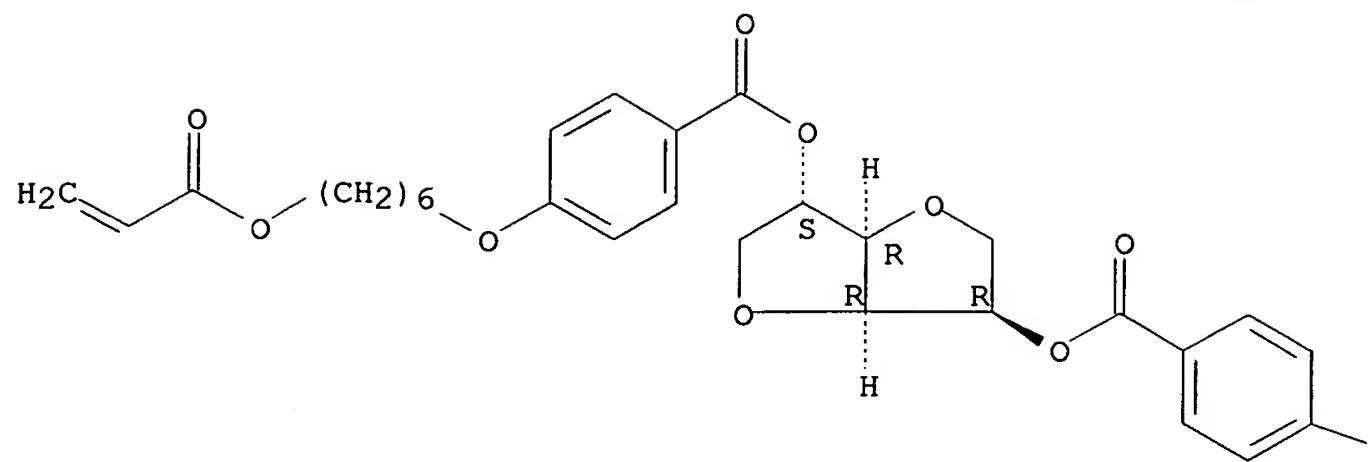
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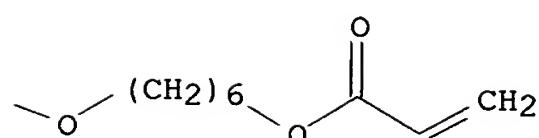
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Absolute stereochemistry.

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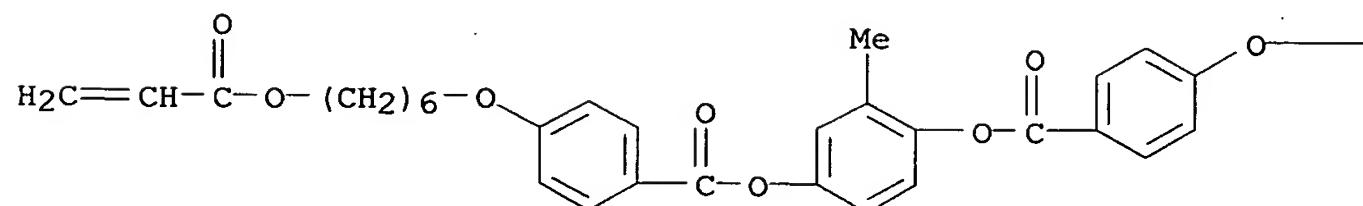
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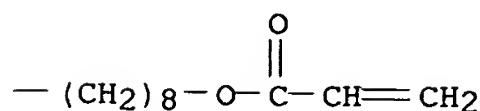
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CMF C41 H48 O10

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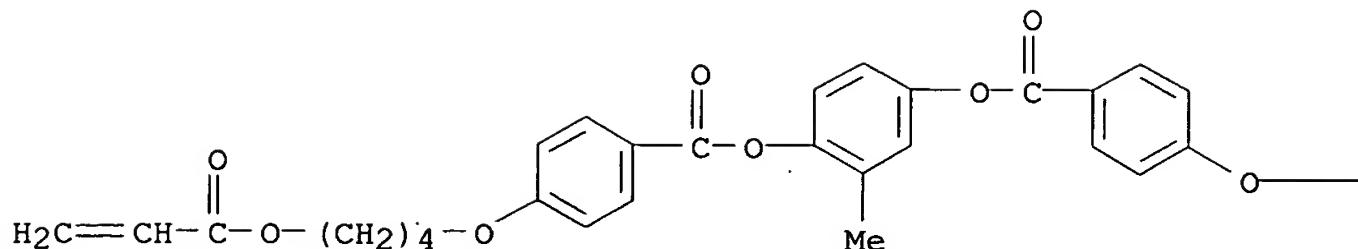
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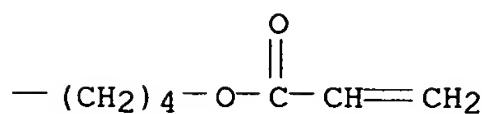
CM 9

CRN 132900-75-5  
CMF C35 H36 O10

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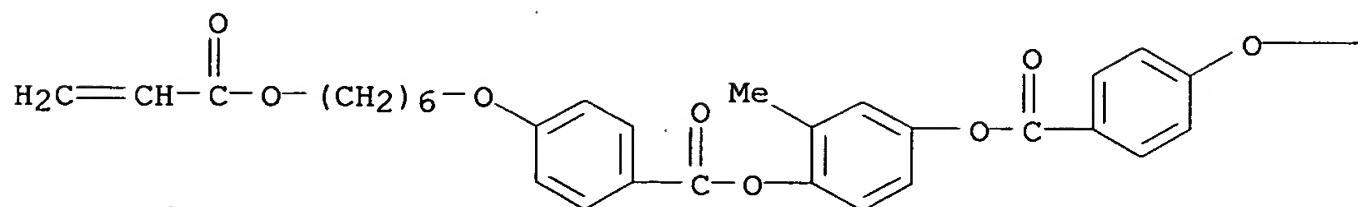
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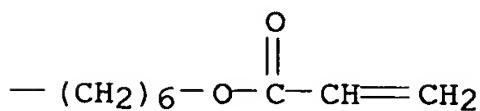
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CRN 125248-71-7  
CMF C39 H44 O10

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RN 172258-26-3 CAPLUS

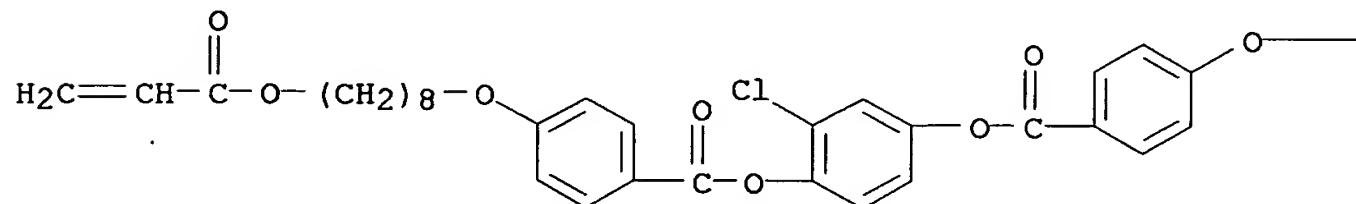
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propenyl)oxy]hexyl]oxy]benzoate, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoate] (9CI) (CA INDEX NAME)

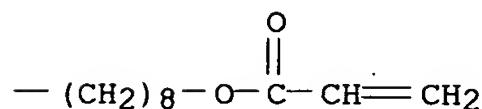
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CRN 172258-25-2  
CMF C42 H49 Cl O10

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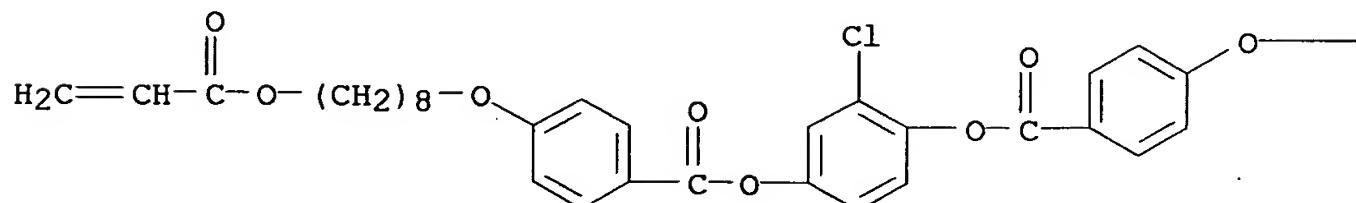
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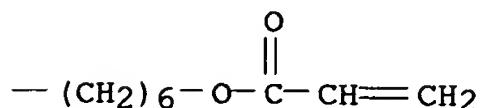
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CMF C40 H45 Cl O10

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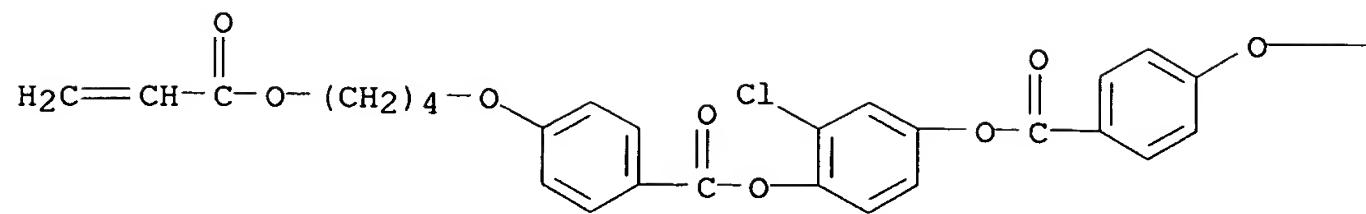
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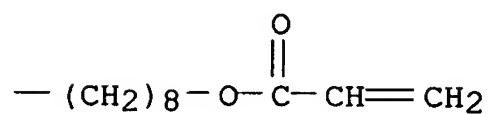
CM 3

CRN 172258-23-0  
CMF C38 H41 Cl O10

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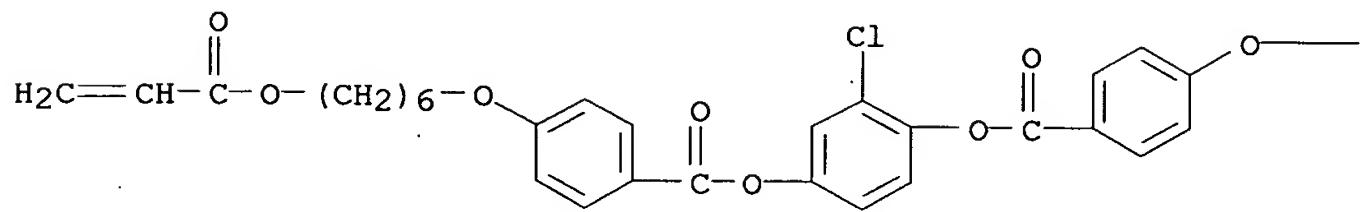
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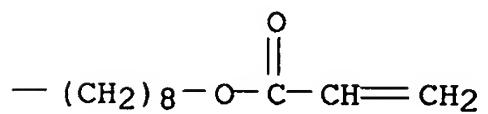
CM 4

CRN 172258-22-9  
CMF C40 H45 Cl O10

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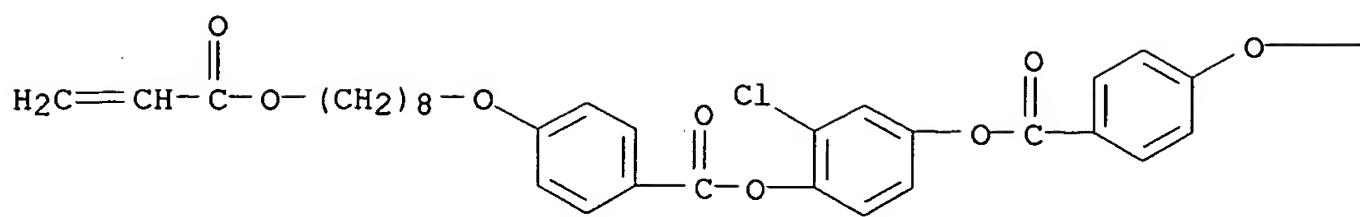
PAGE 1-B



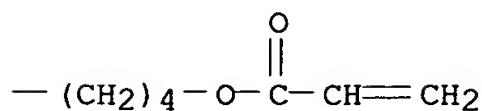
CM 5

CRN 172258-21-8  
CMF C38 H41 Cl O10

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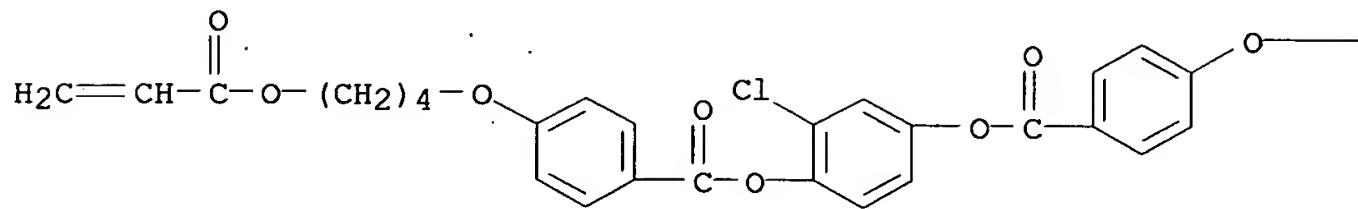
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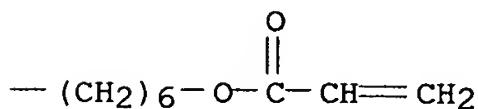
CM 6

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CMF C36 H37 Cl O10

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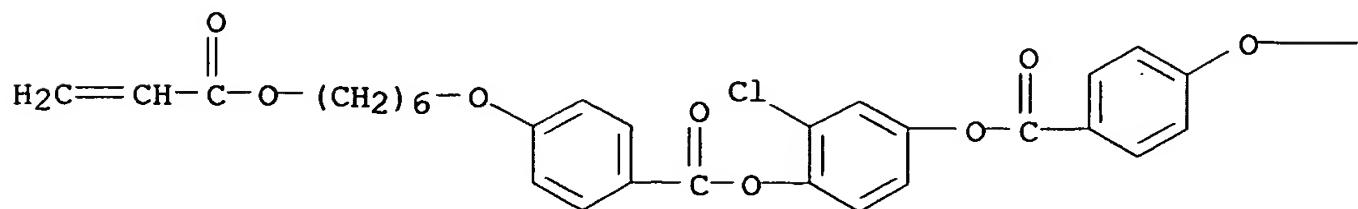
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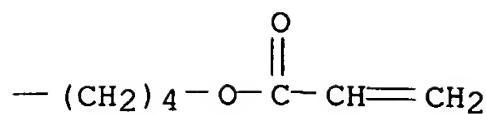
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CRN 172257-74-8  
CMF C36 H37 Cl O10

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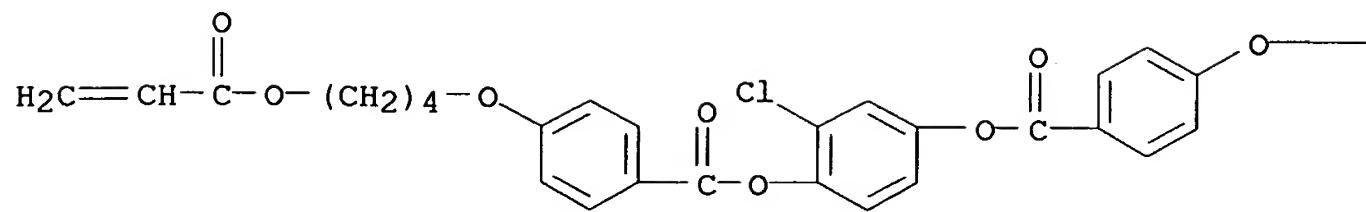
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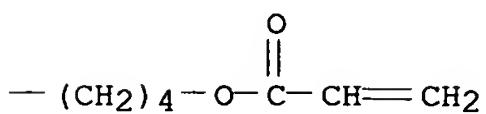
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CRN 172257-73-7  
CMF C34 H33 C1 010

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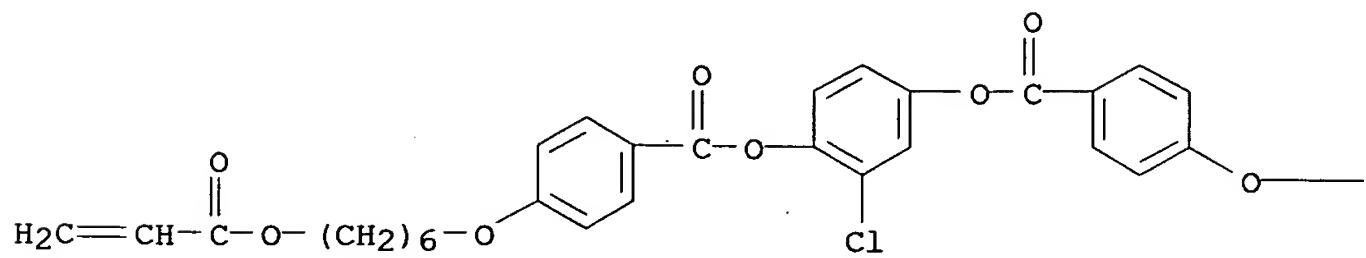
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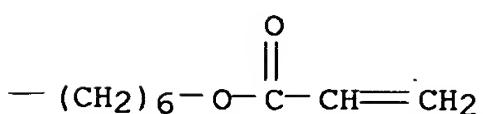
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CMF C38 H41 C1 010

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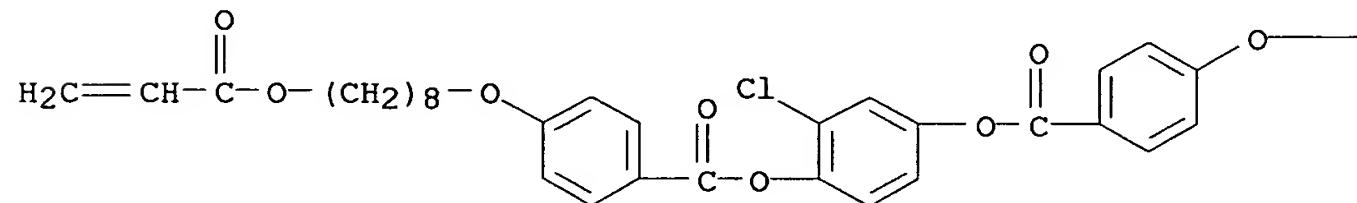
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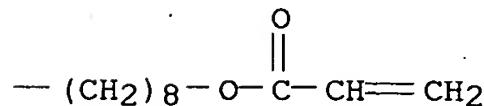
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CMF C42 H49 Cl O10

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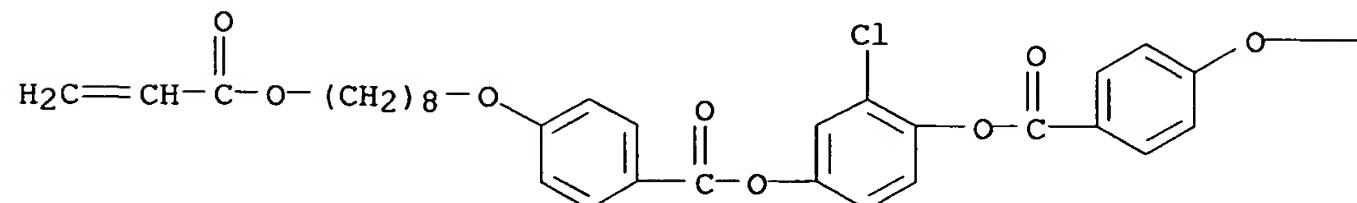
PAGE 1-B



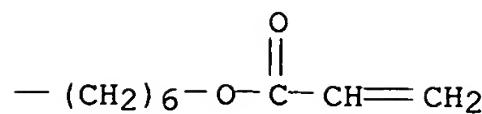
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CMF C40 H45 Cl O10

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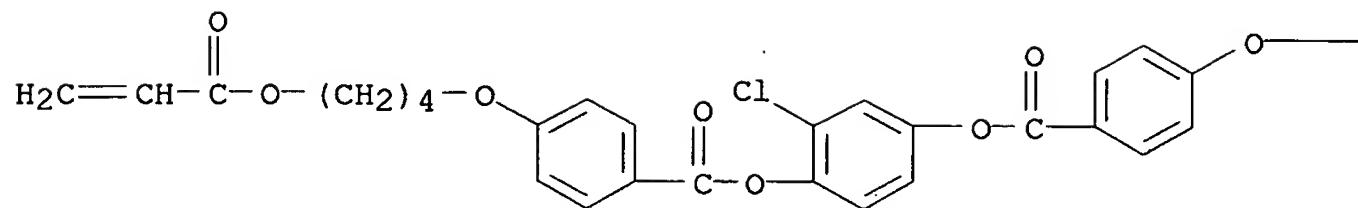
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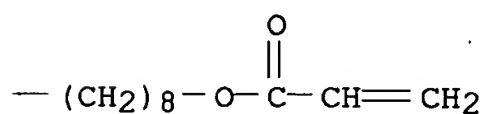
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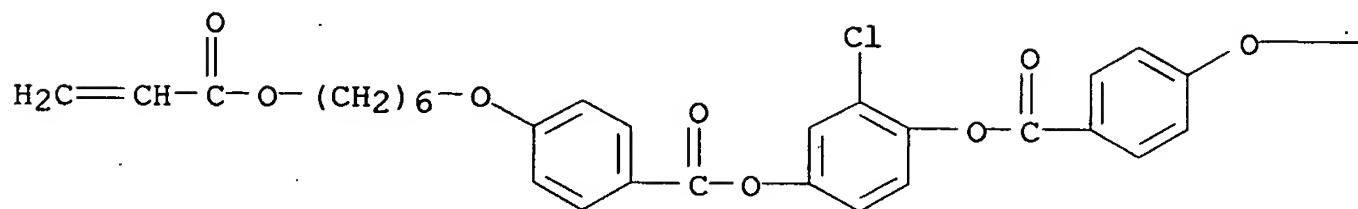
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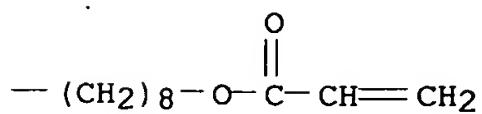
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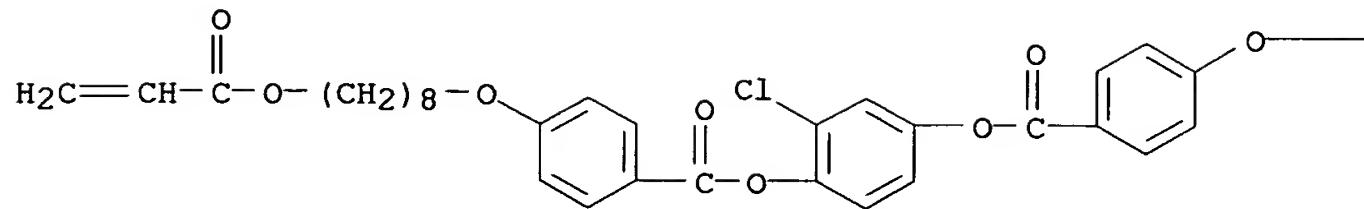
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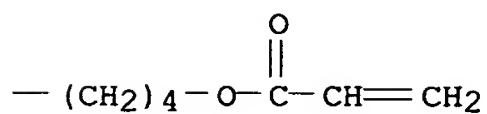
CM 5

CRN 172258-21-8  
CMF C38 H41 Cl O10

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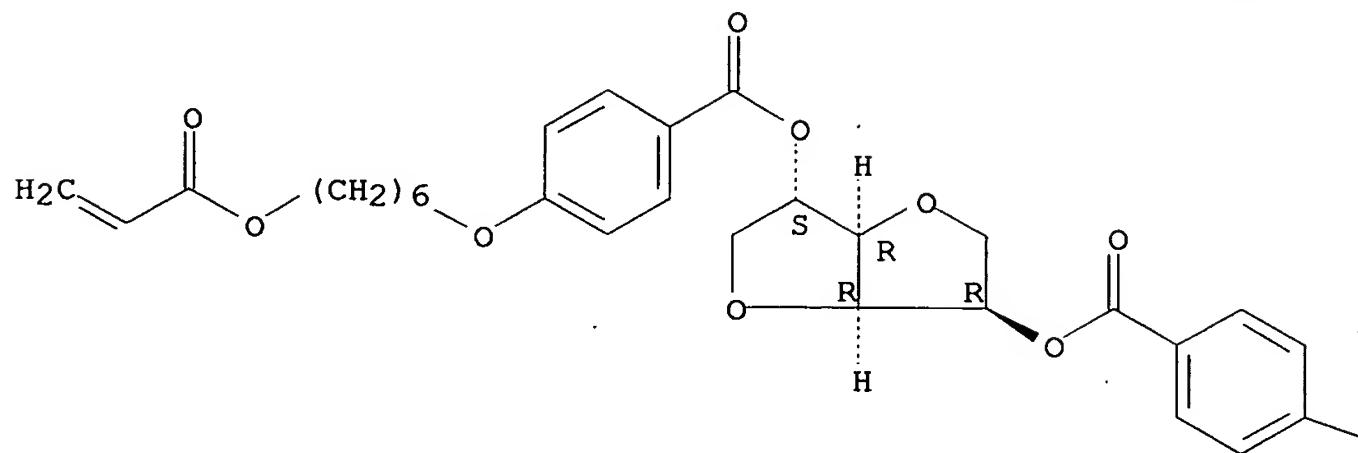


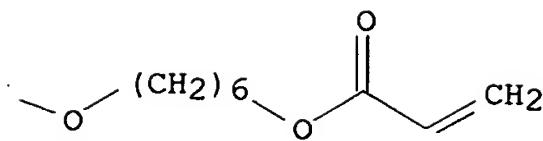
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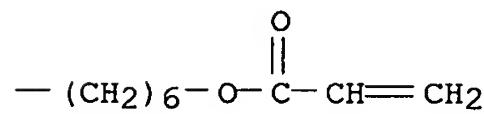
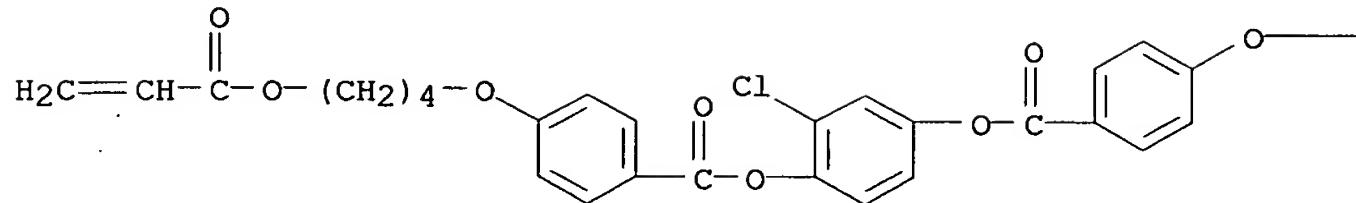
Absolute stereochemistry.

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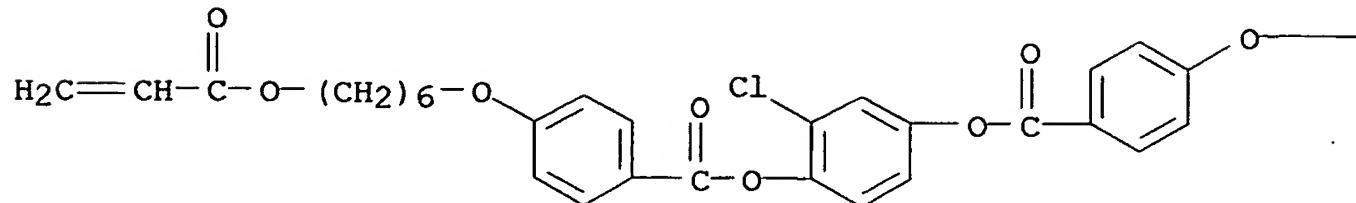




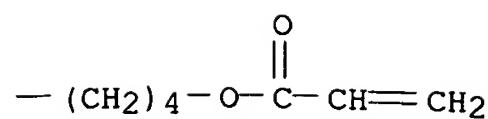
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CRN 172257-75-9  
CMF C36 H37 Cl O10

CM 8

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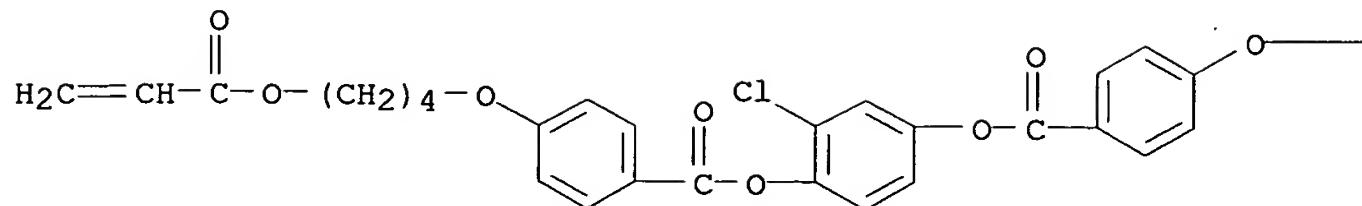
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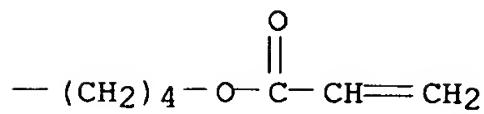
CM 9

CRN 172257-73-7  
CMF C34 H33 Cl O10

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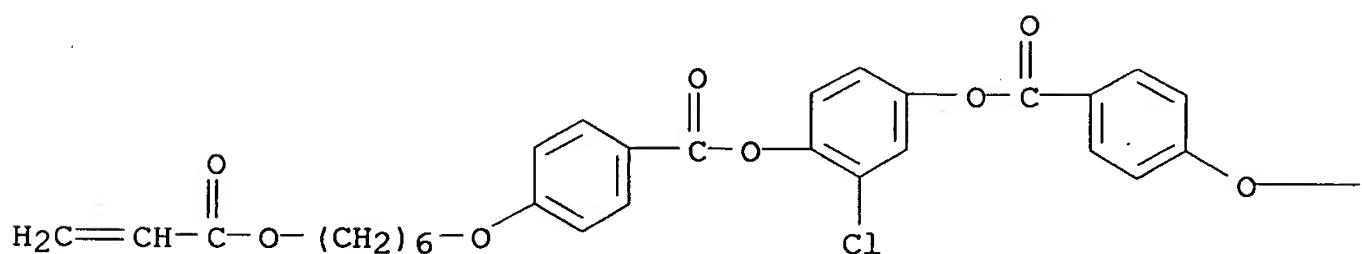
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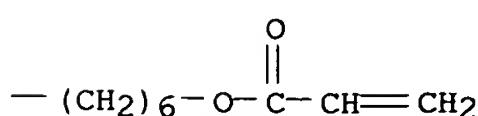
CM 10

CRN 150809-90-8  
CMF C38 H41 Cl O10

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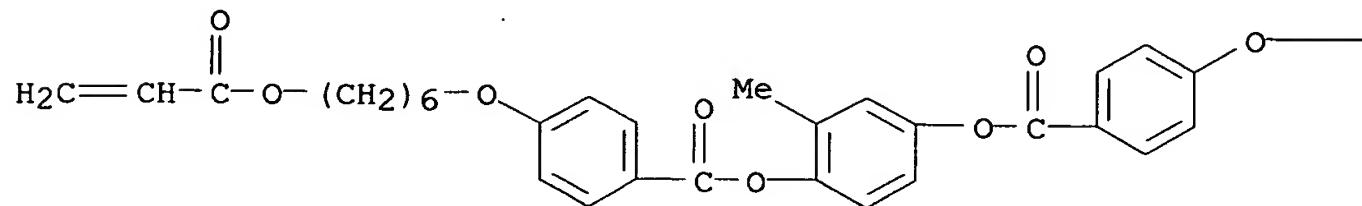
RN 172339-26-3 CAPLUS  
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,

2-methyl-1,4-phenylene ester, mixt. with 1,4-phenylene  
bis[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX  
NAME)

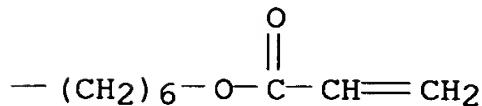
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CMF C39 H44 O10

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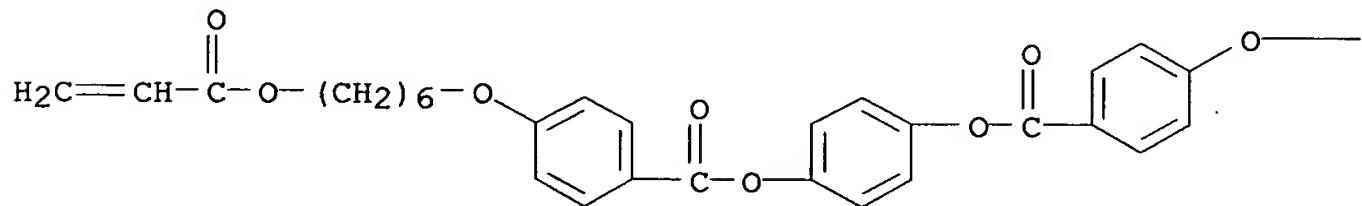
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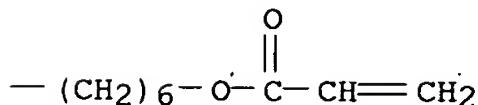
CM 2

CRN 123864-17-5  
CMF C38 H42 O10

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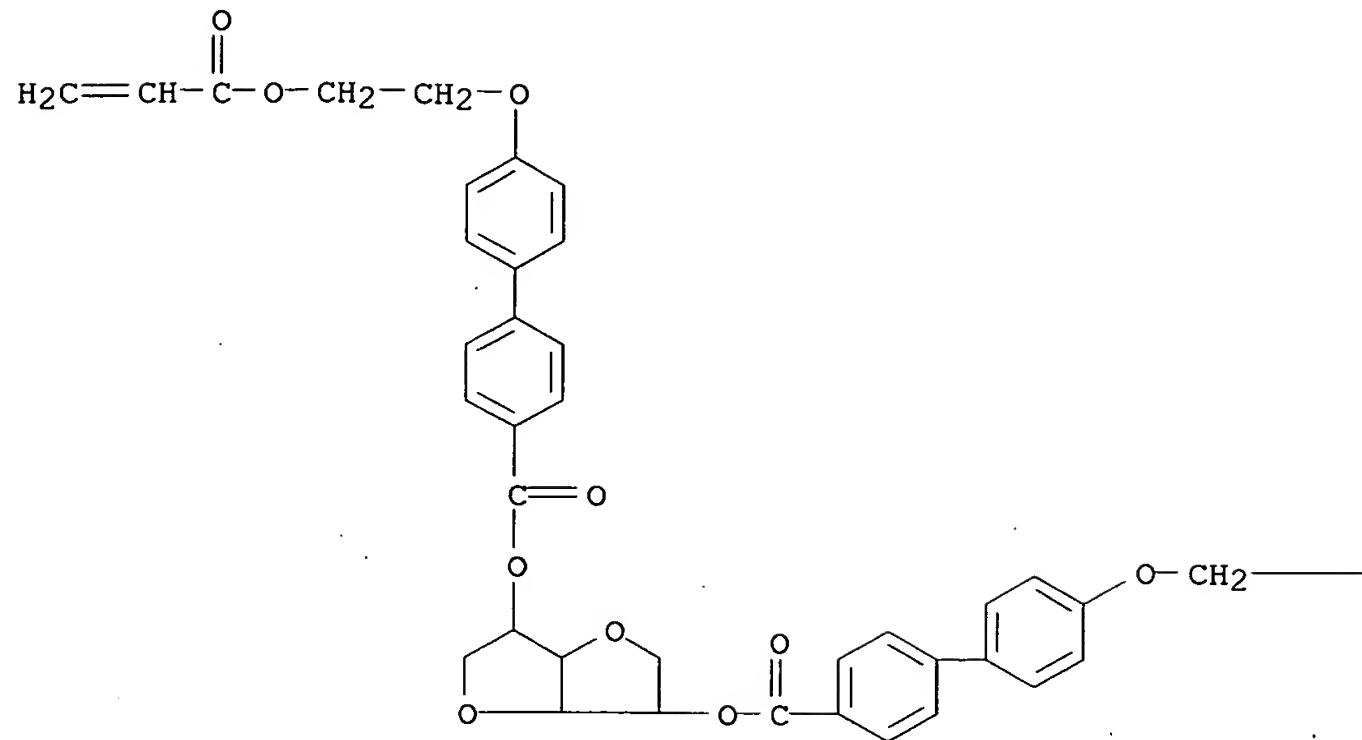
RN 172339-28-5 CAPLUS

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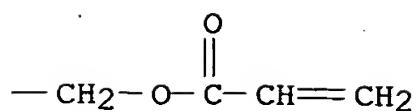
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CMF C42 H38 O12

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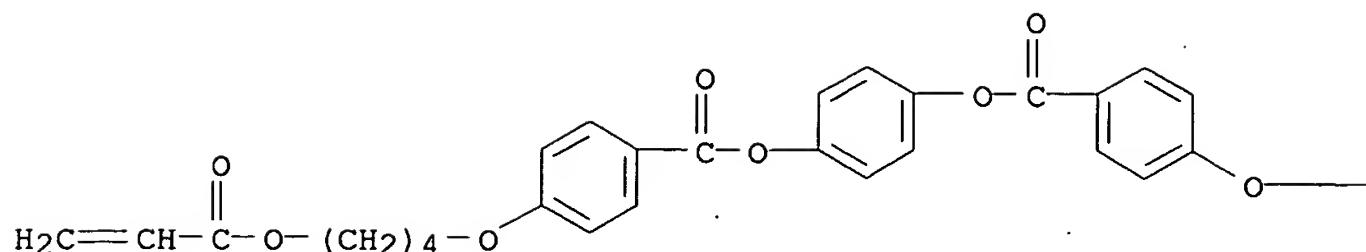
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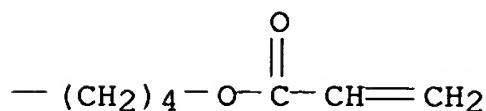
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CMF C34 H34 O10

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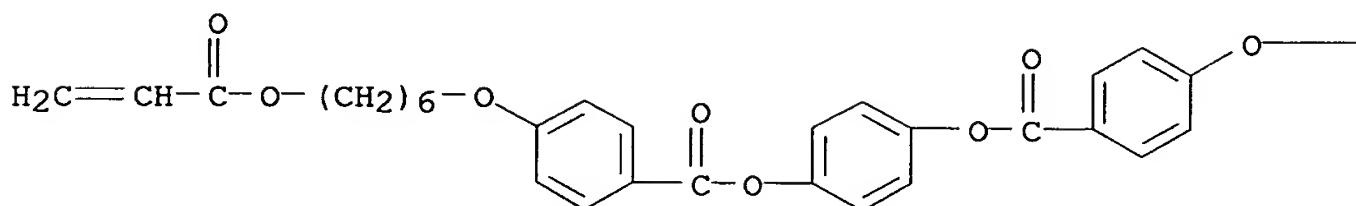
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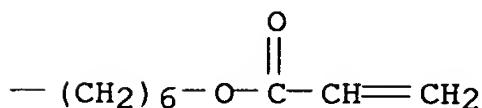
CM 3

CRN 123864-17-5  
CMF C38 H42 O10

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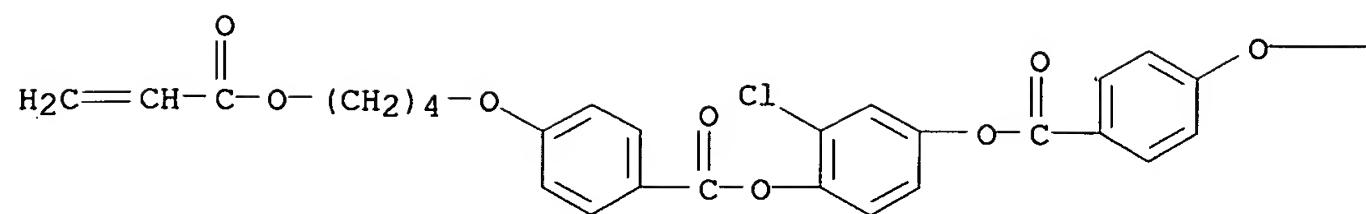
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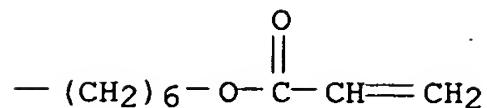
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CMF C36 H37 Cl O10

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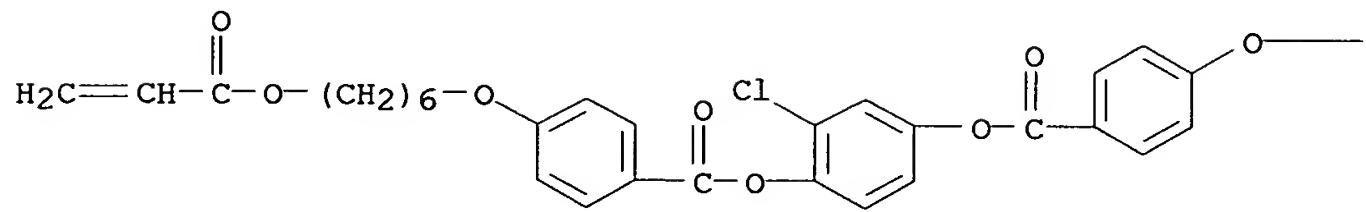
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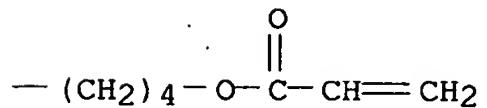
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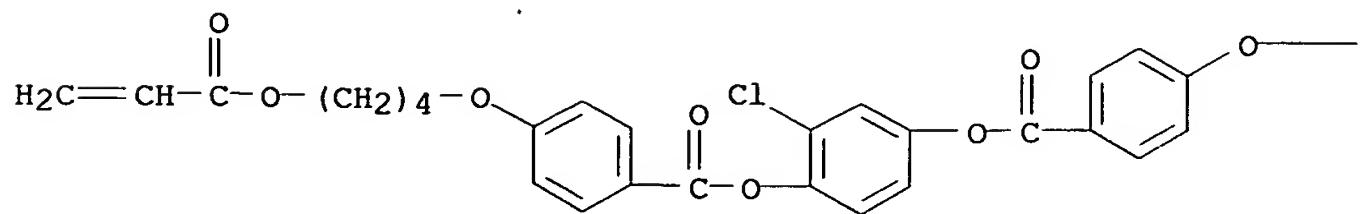
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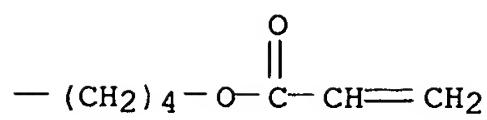
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CMF C34 H33 Cl O10

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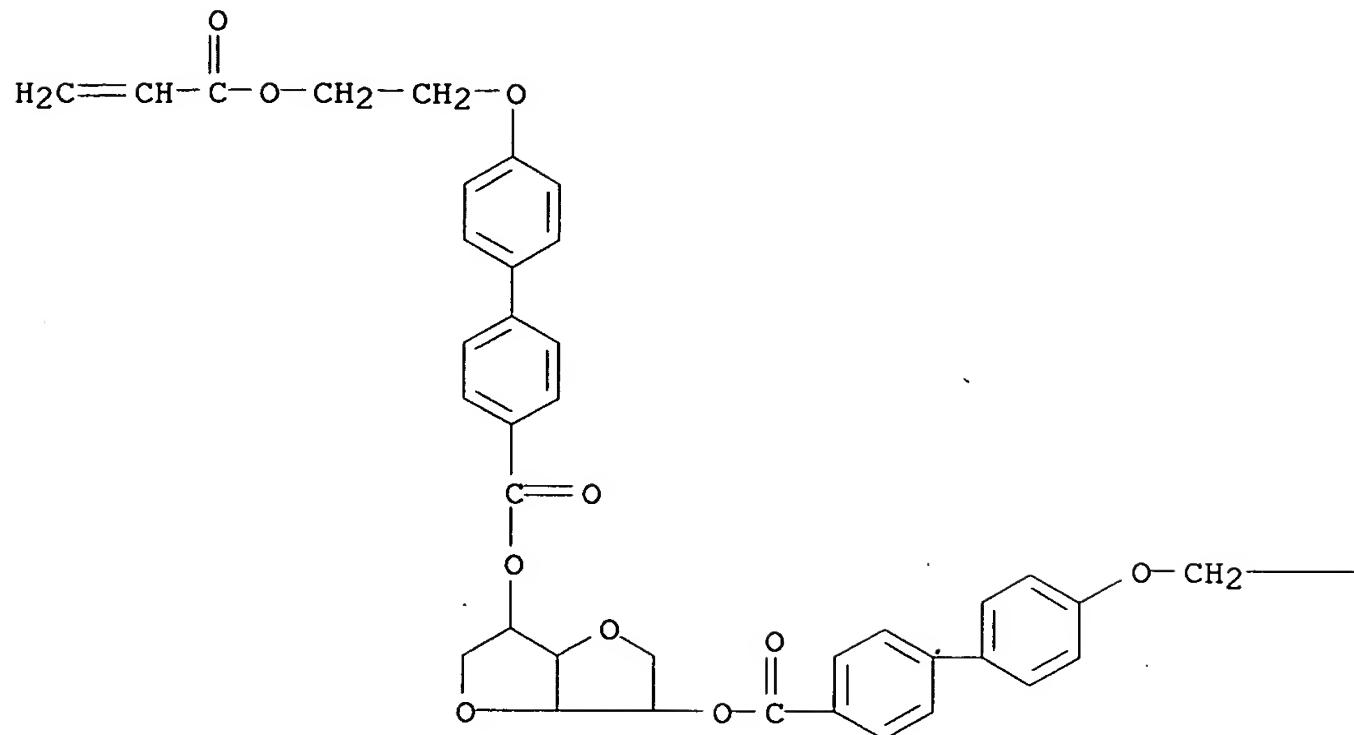
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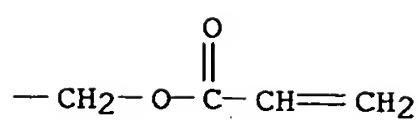
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CMF C42 H38 O12

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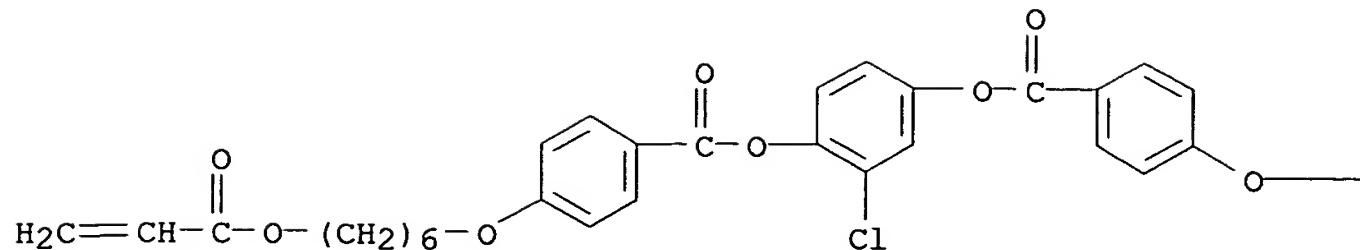
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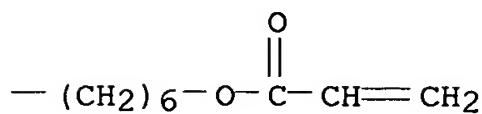
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CMF C38 H41 Cl O10

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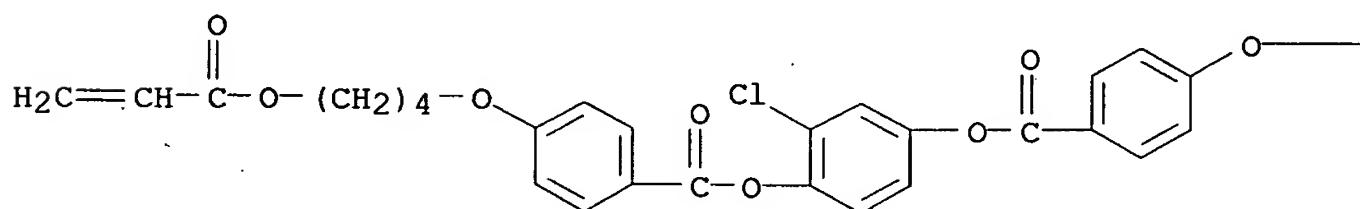
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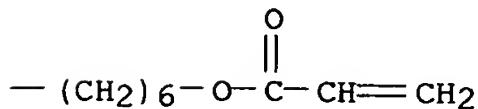
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CMF C36 H37 Cl O10

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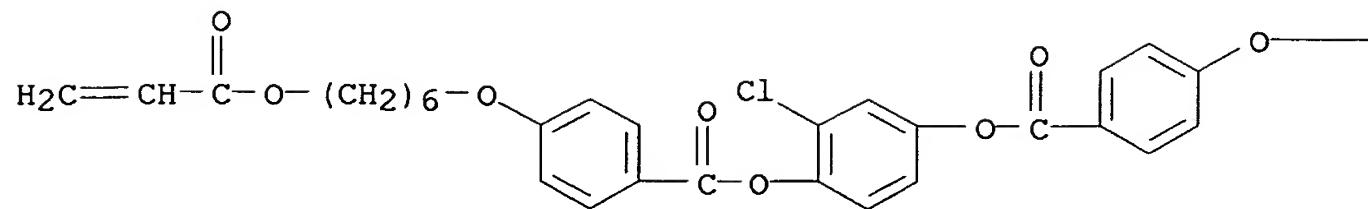
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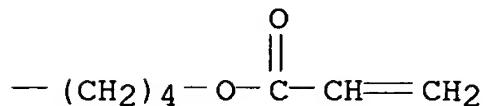
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CMF C36 H37 Cl O10

PAGE 1-A



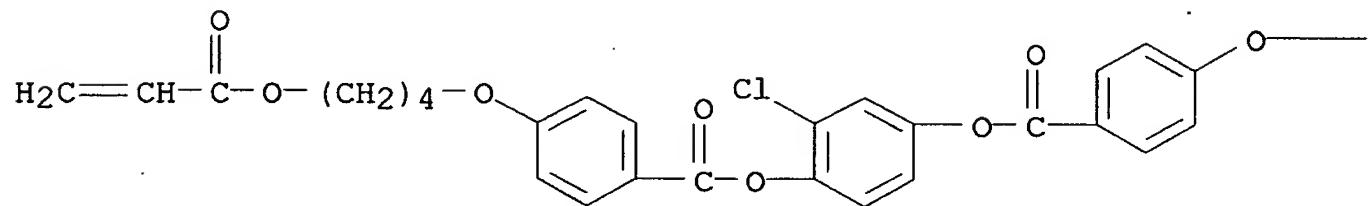
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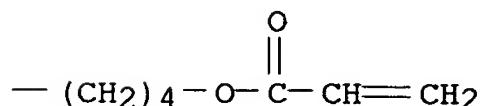
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CRN 172257-73-7  
CMF C34 H33 Cl O10

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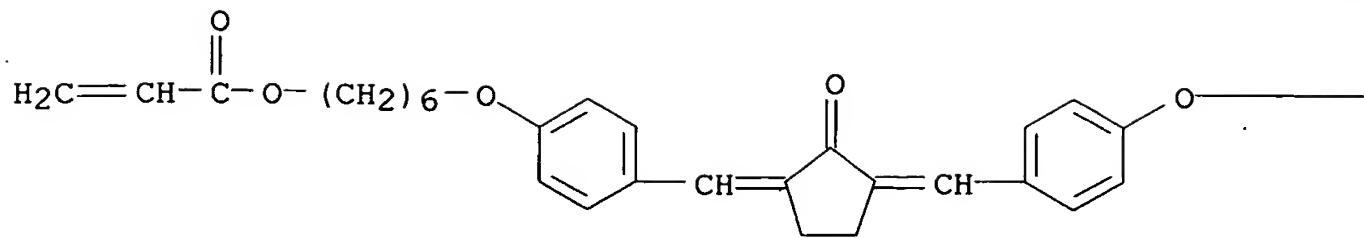
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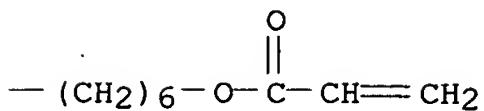
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CMF C37 H44 O7

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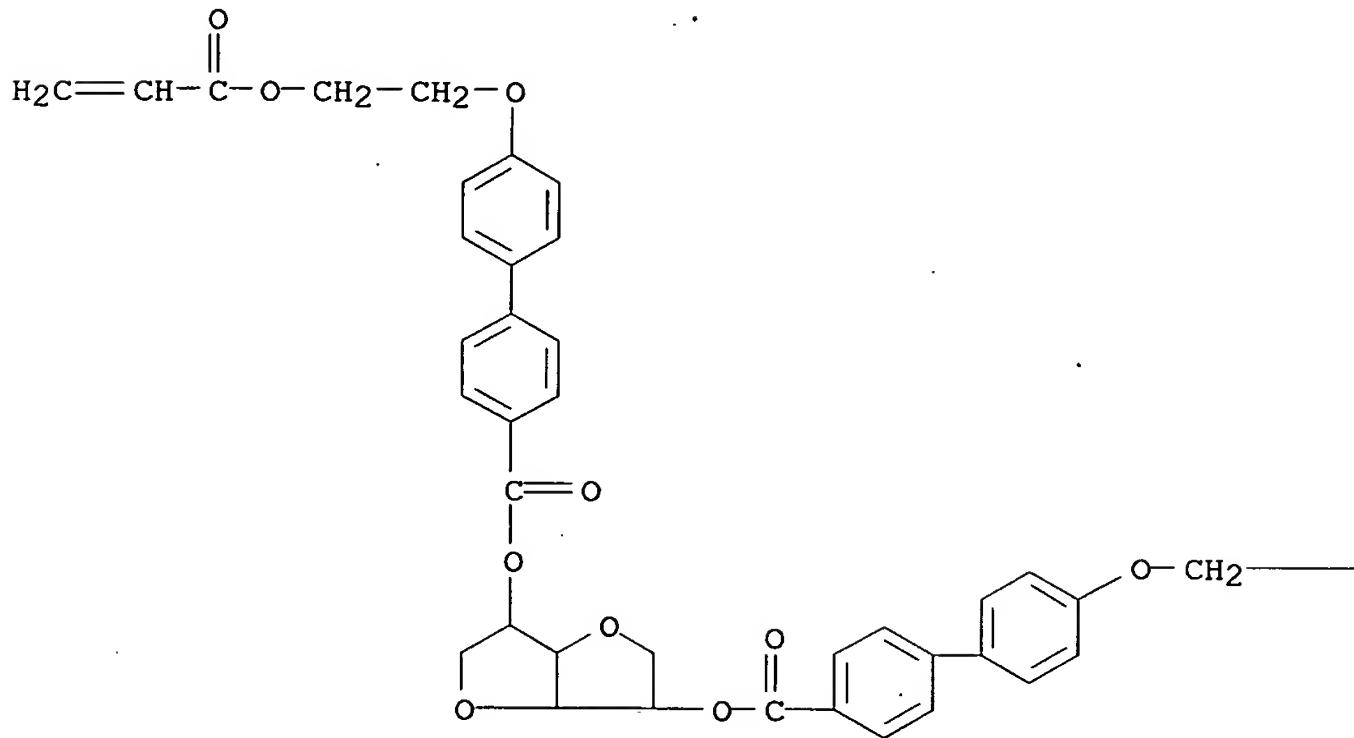
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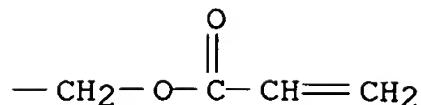


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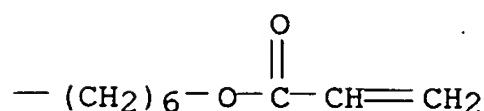
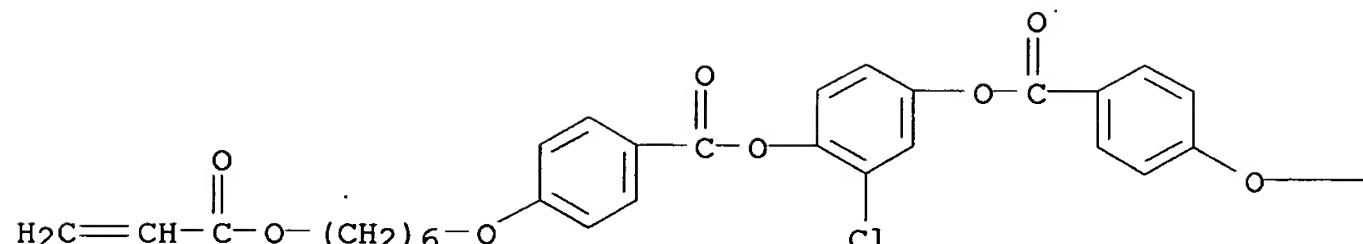
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CMF C42 H38 O12

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CM 6

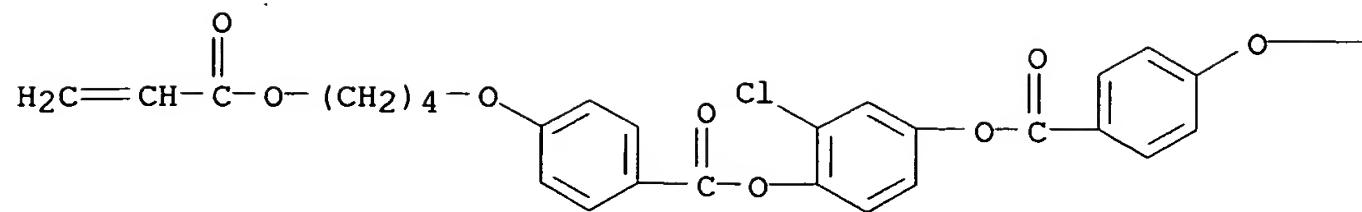
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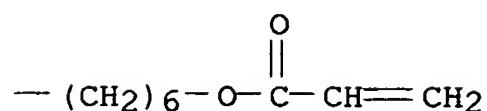
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CMF C36 H37 Cl O10

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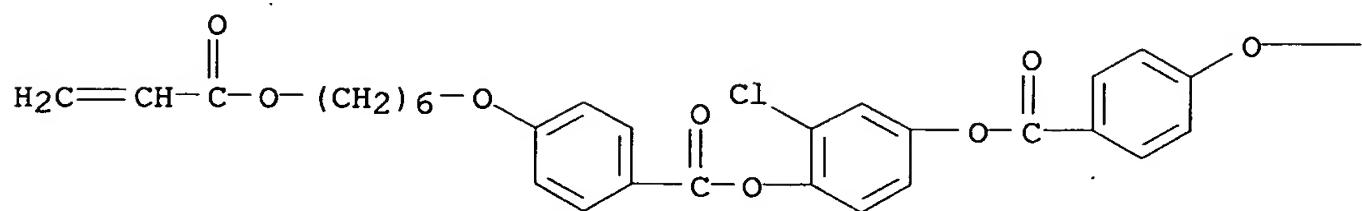
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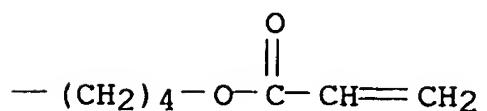
CM 2

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CMF C36 H37 Cl O10

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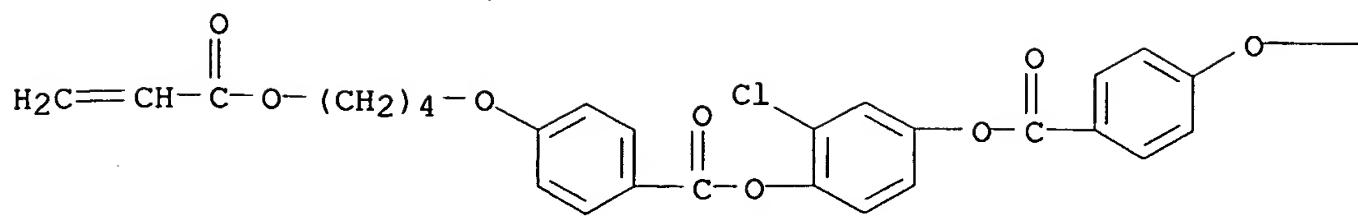
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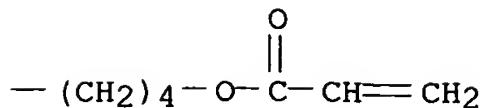
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CMF C34 H33 Cl O10

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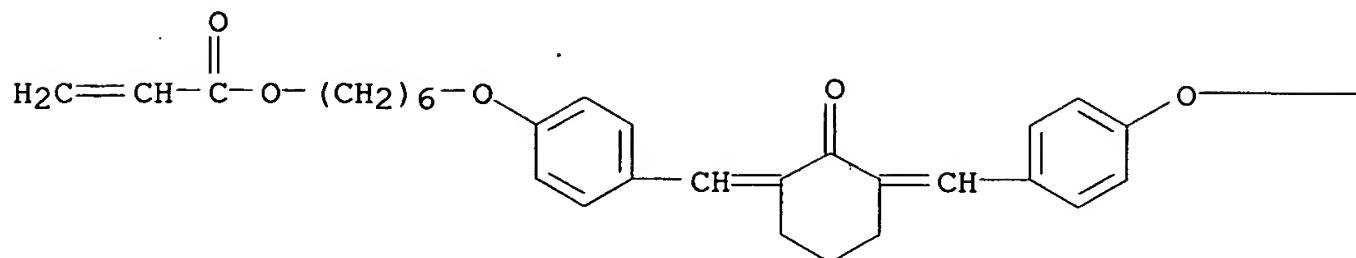
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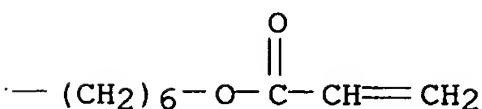
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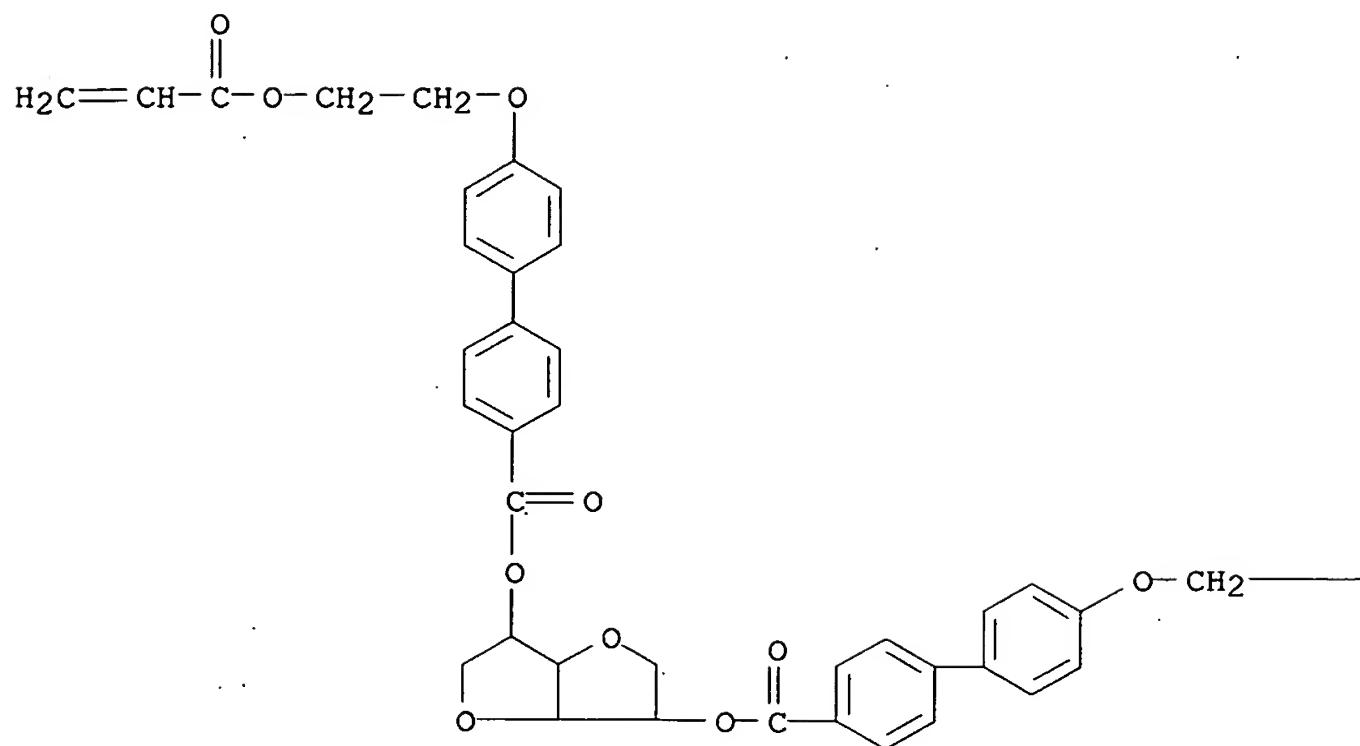
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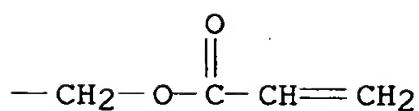
CM 5

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CMF C42 H38 O12

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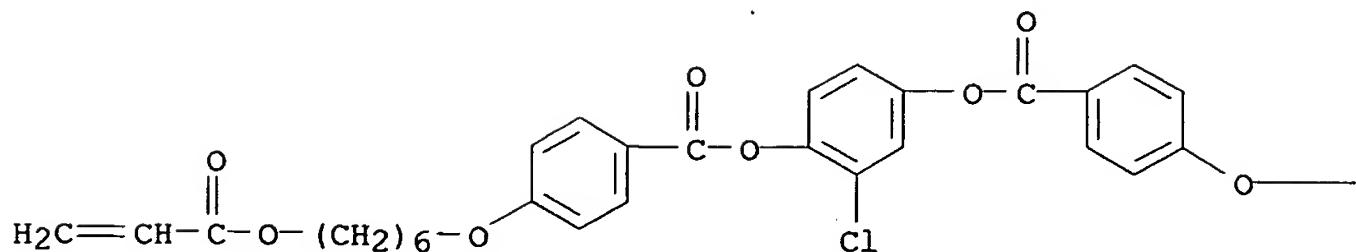
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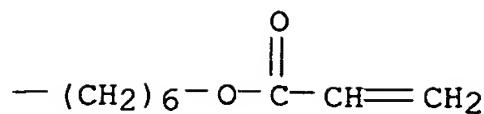
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RN 172339-32-1 CAPLUS

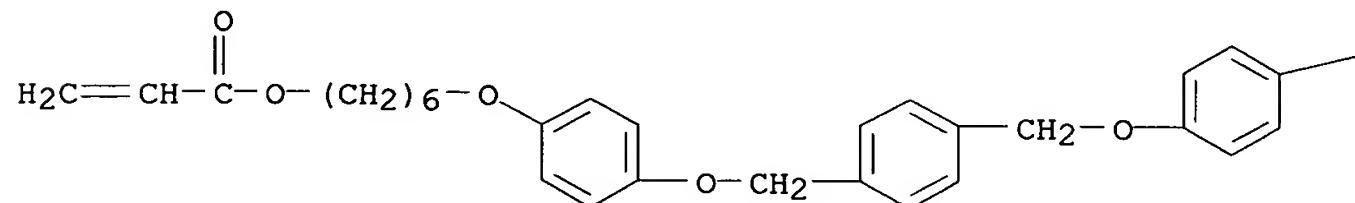
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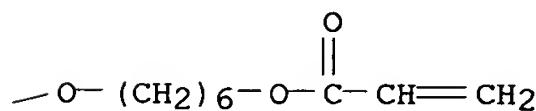
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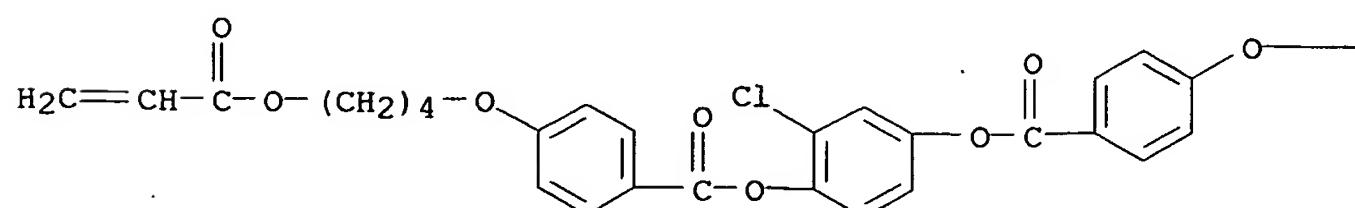


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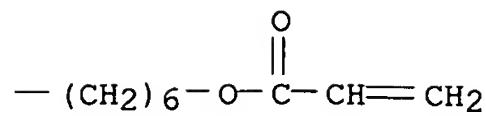
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CMF C36 H37 Cl O10

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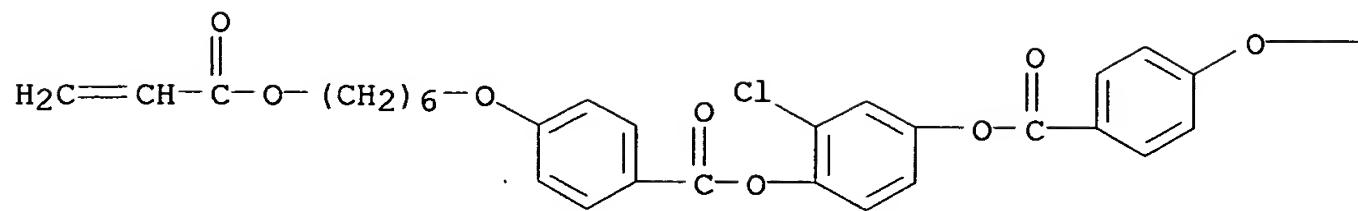
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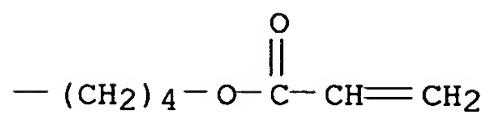
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CMF C36 H37 Cl O10

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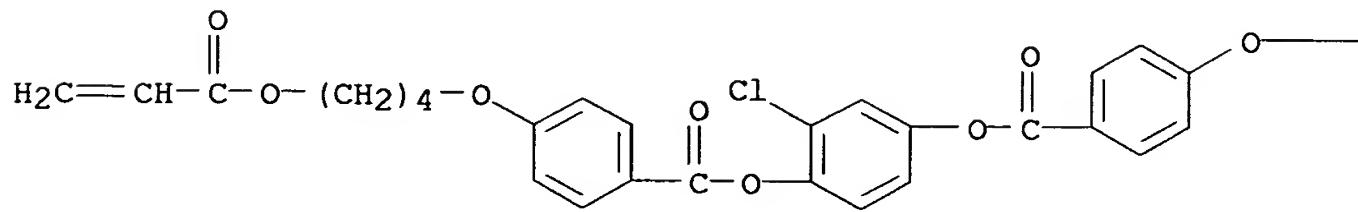
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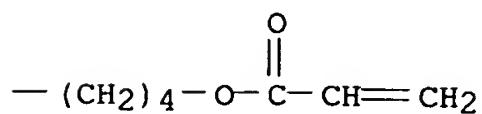
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CMF C34 H33 Cl O10

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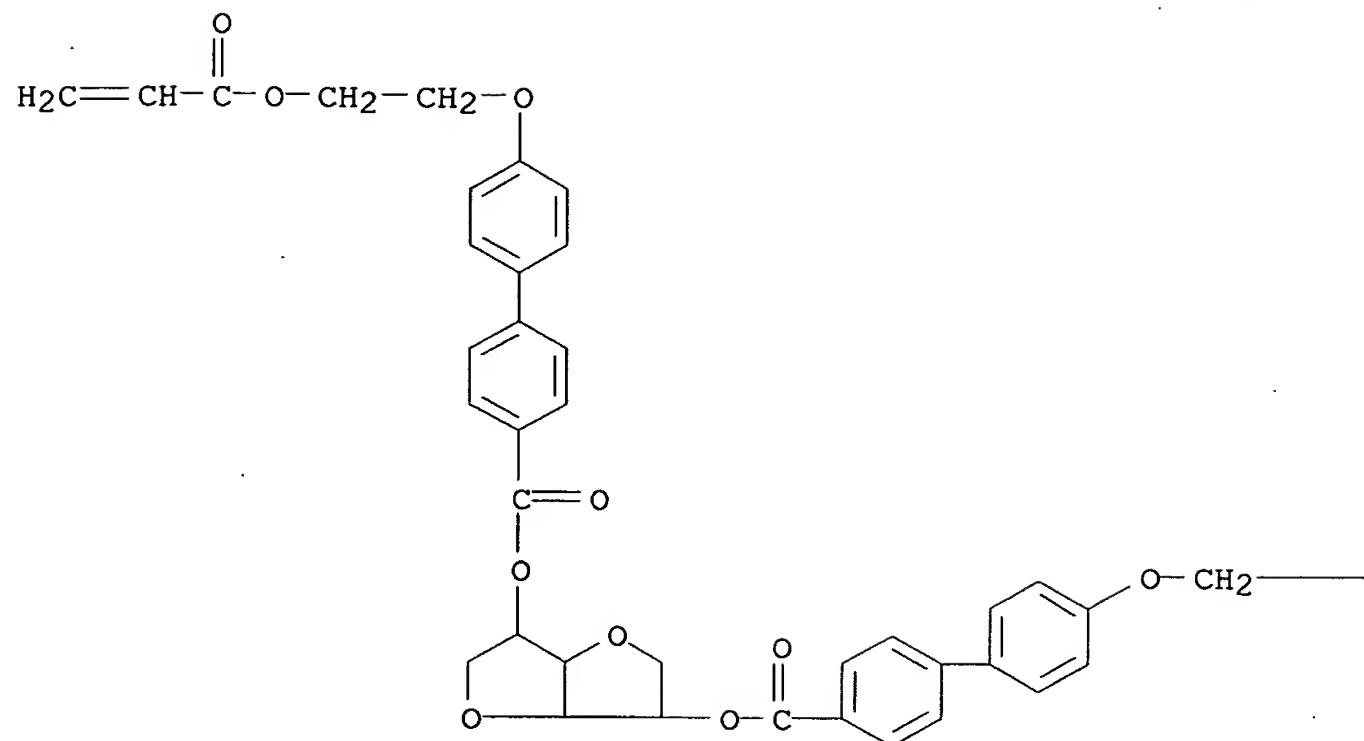
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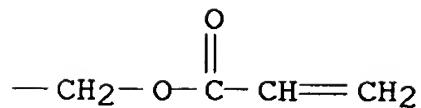
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CMF C42 H38 O12

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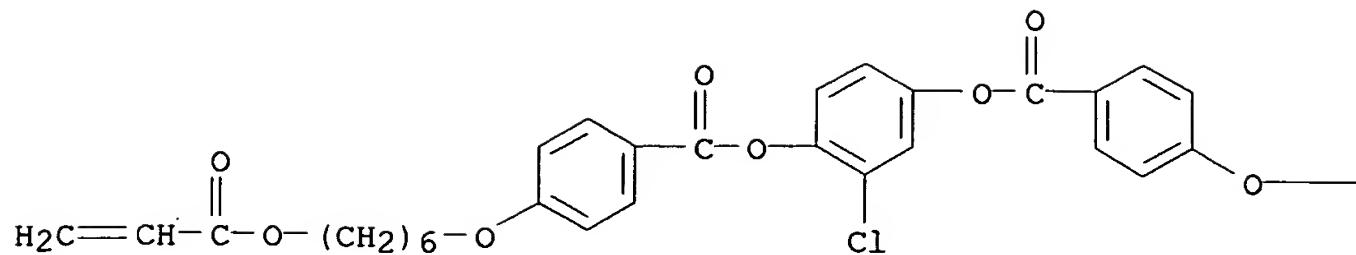
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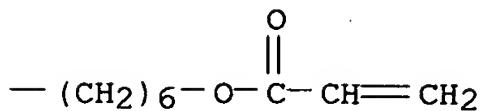
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CMF C38 H41 Cl O10

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RN 172339-33-2 CAPLUS

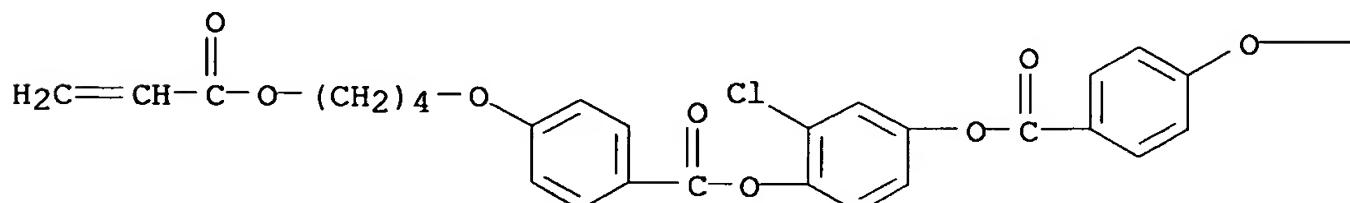
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CM 1

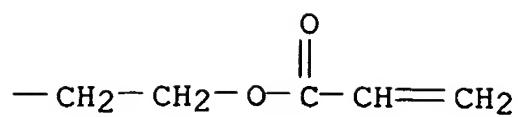
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CMF C32 H29 Cl 010

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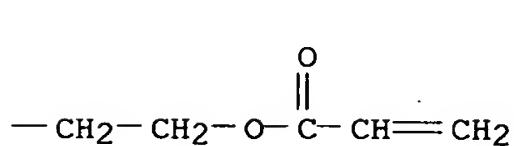
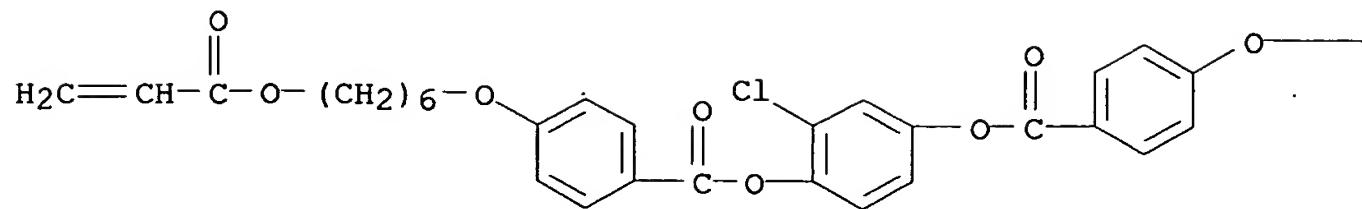
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CM 2

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CMF C34 H33 Cl O10

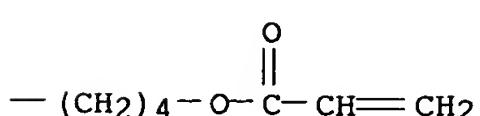
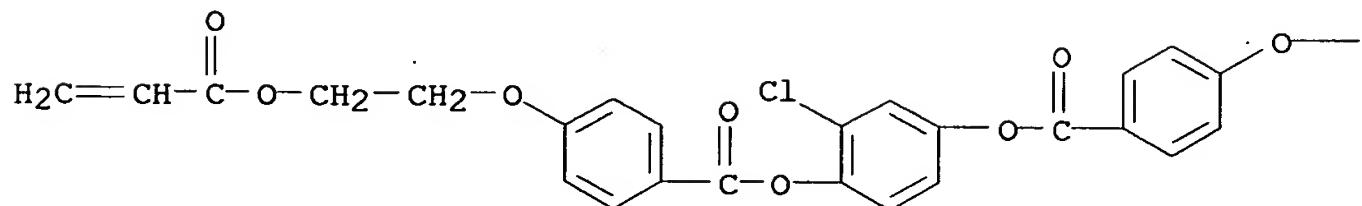
PAGE 1-A



CM 3

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CMF C32 H29 Cl O10

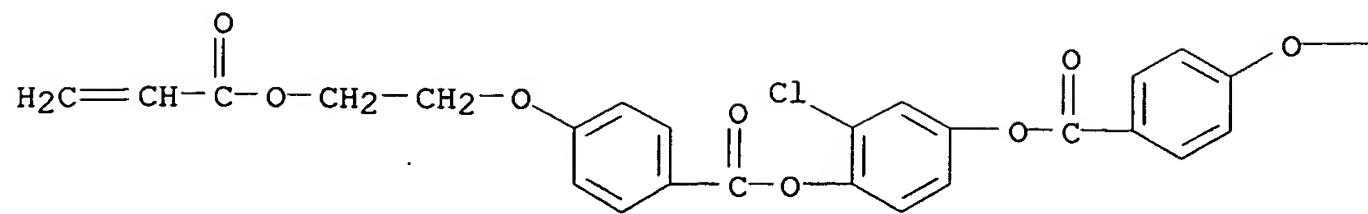
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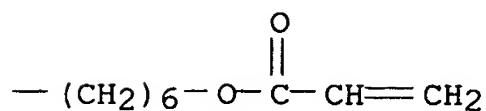
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CMF C34 H33 Cl O10

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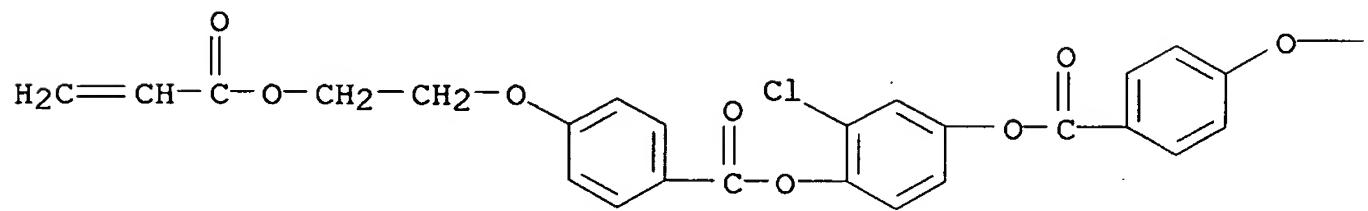
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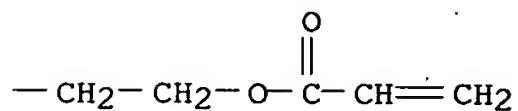
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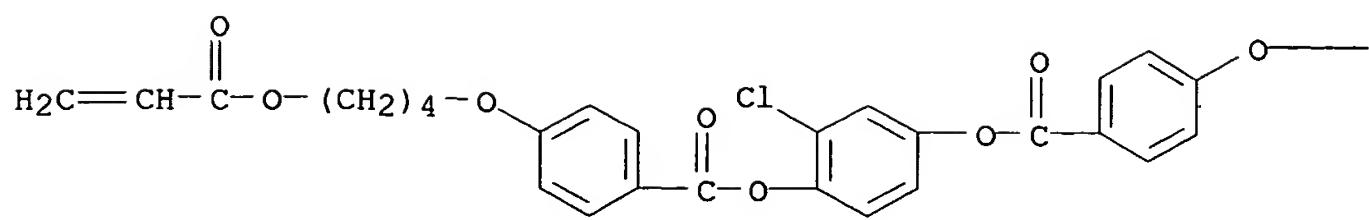
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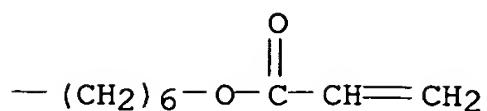
CM 6

CRN 172257-75-9  
CMF C36 H37 Cl O10

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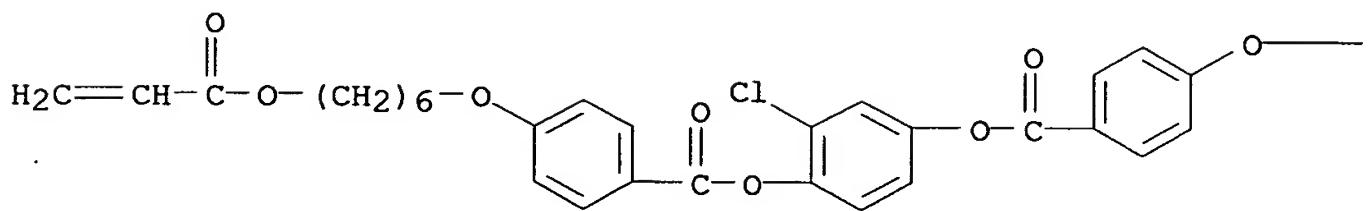
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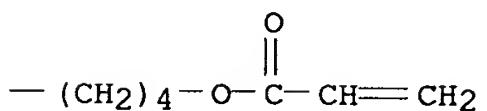
CM 7

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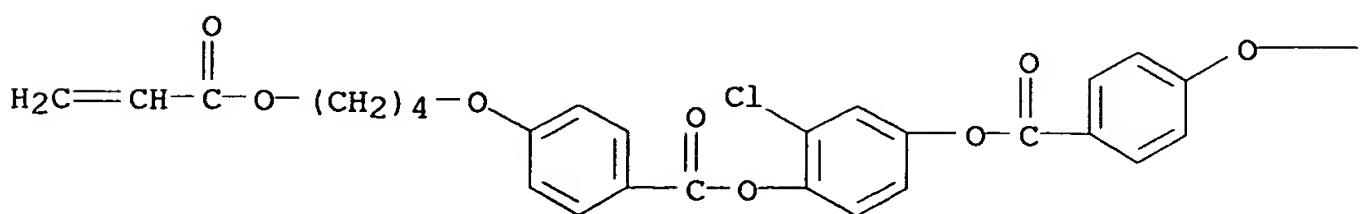
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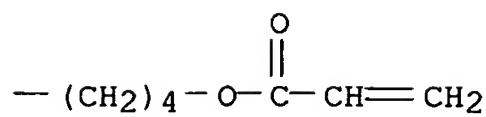
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CRN 172257-73-7  
CMF C34 H33 Cl O10

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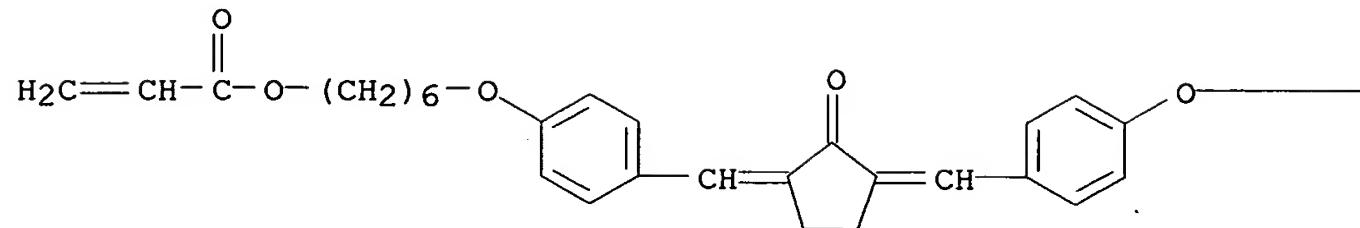
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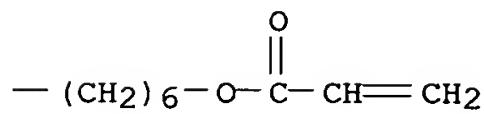
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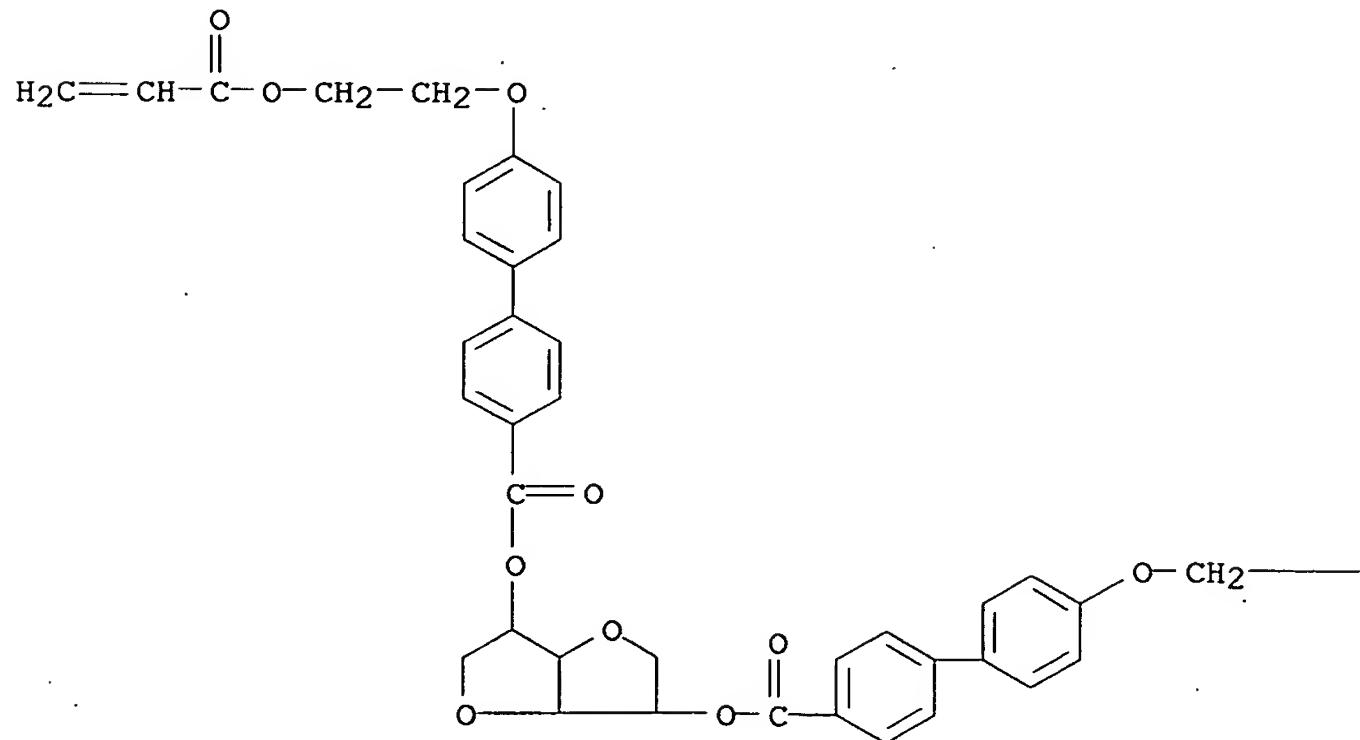
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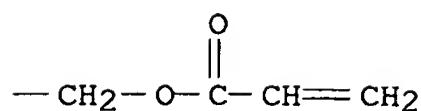
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CMF C42 H38 O12

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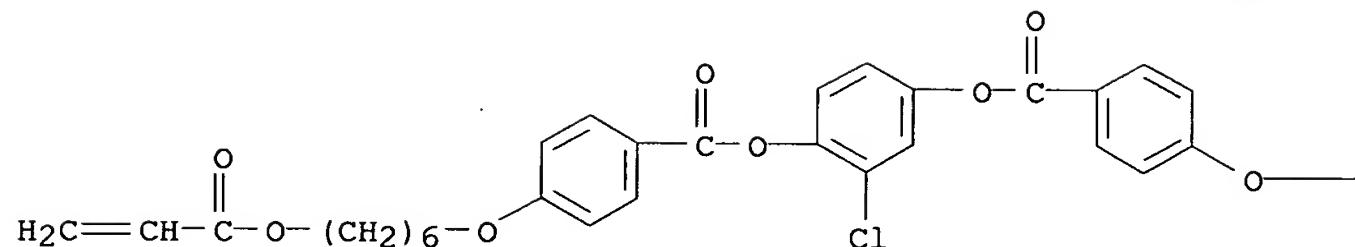
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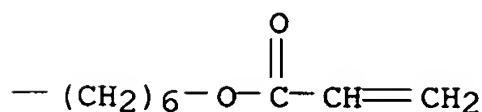
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CRN 150809-90-8  
CMF C38 H41 Cl 010

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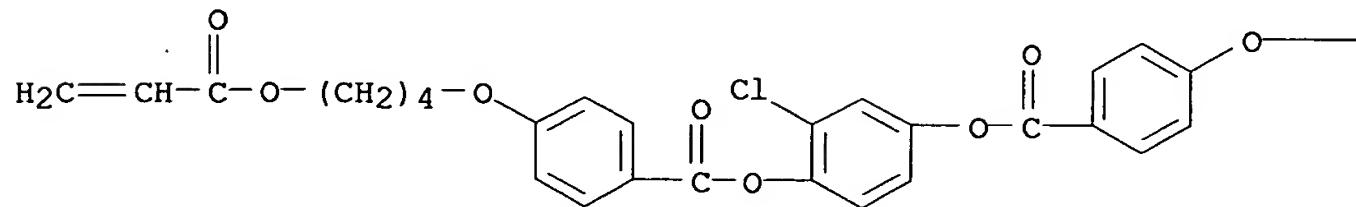
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propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and (2-oxo-1,3-cyclohexanediylidene)bis(methylidyne-4,1-phenyleneoxy-6,1-hexanediyyl)di-2-propenoate (9CI) (CA INDEX NAME)

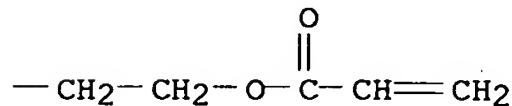
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CMF C32 H29 Cl 010

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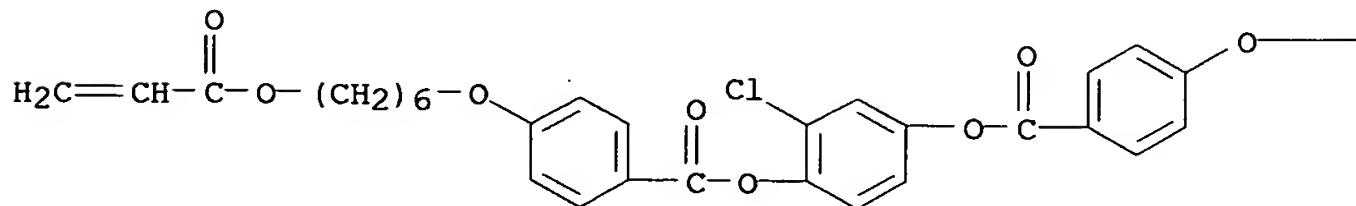
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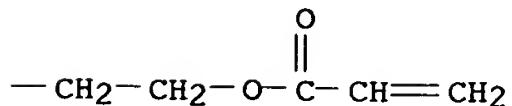
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CMF C34 H33 Cl 010

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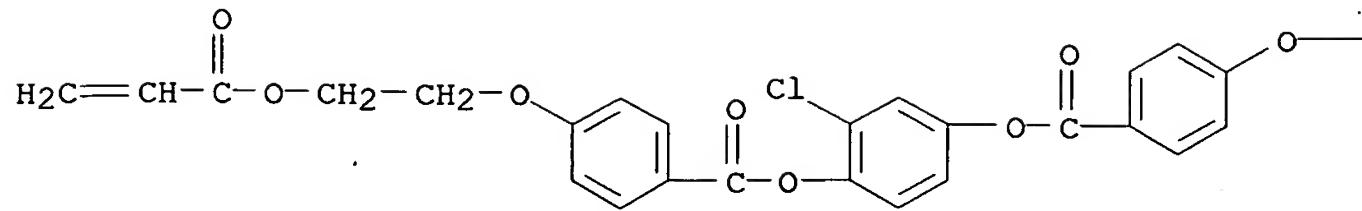
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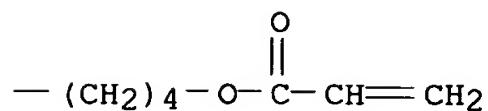
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CMF C32 H29 Cl O10

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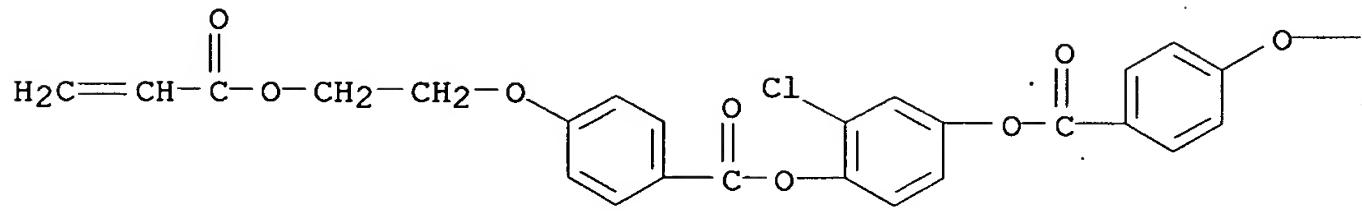
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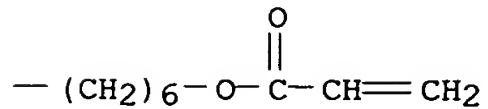
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CRN 172257-79-3  
CMF C34 H33 Cl O10

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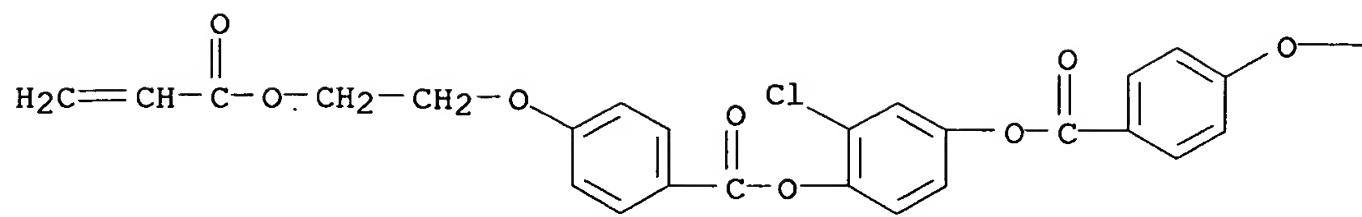
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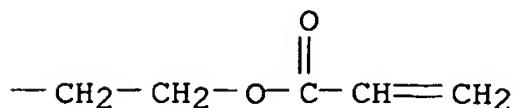
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CRN 172257-78-2  
CMF C30 H25 Cl O10

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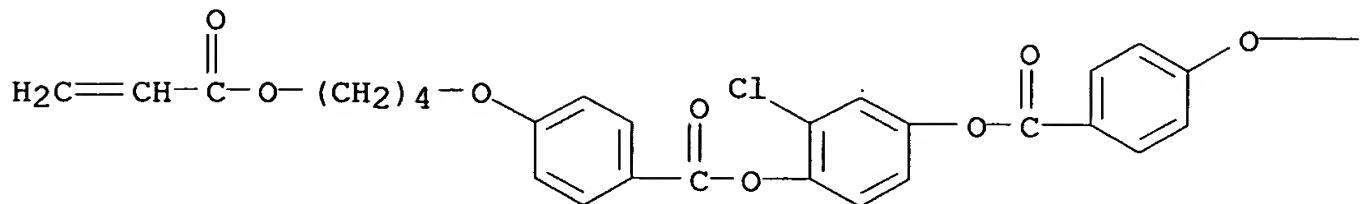
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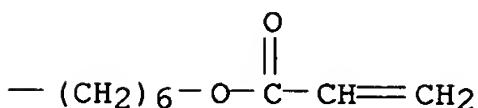
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CMF C36 H37 Cl O10

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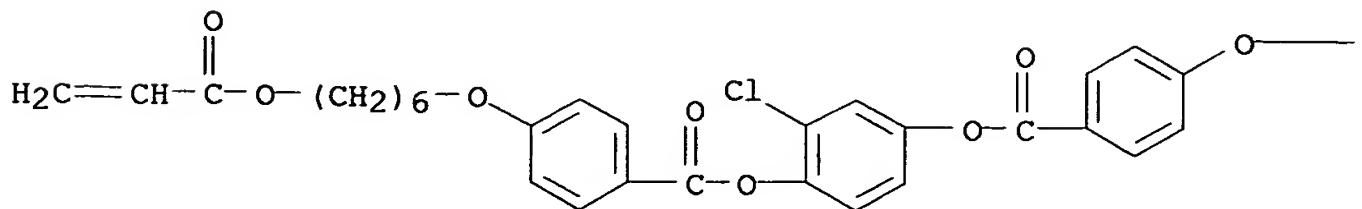
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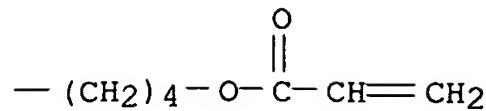
CM 7

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CMF C36 H37 Cl O10

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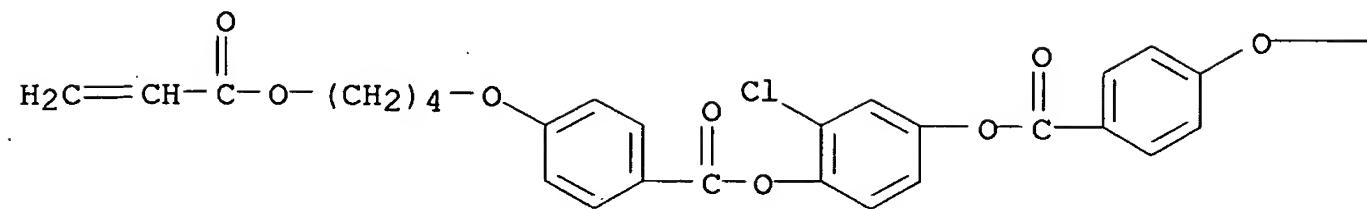
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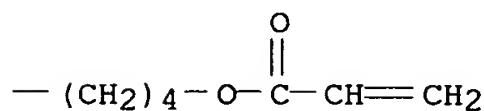
CM 8

CRN 172257-73-7  
CMF C34 H33 Cl O10

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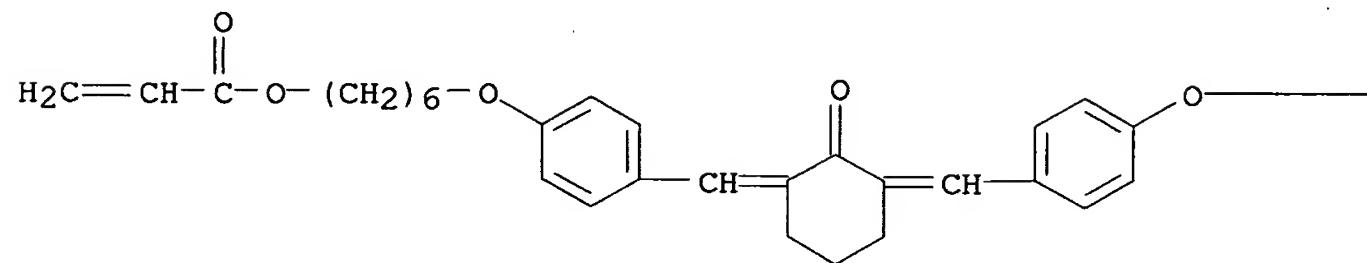
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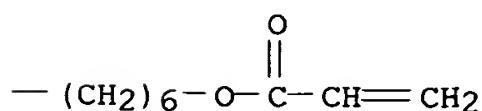
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CMF C38 H46 O7

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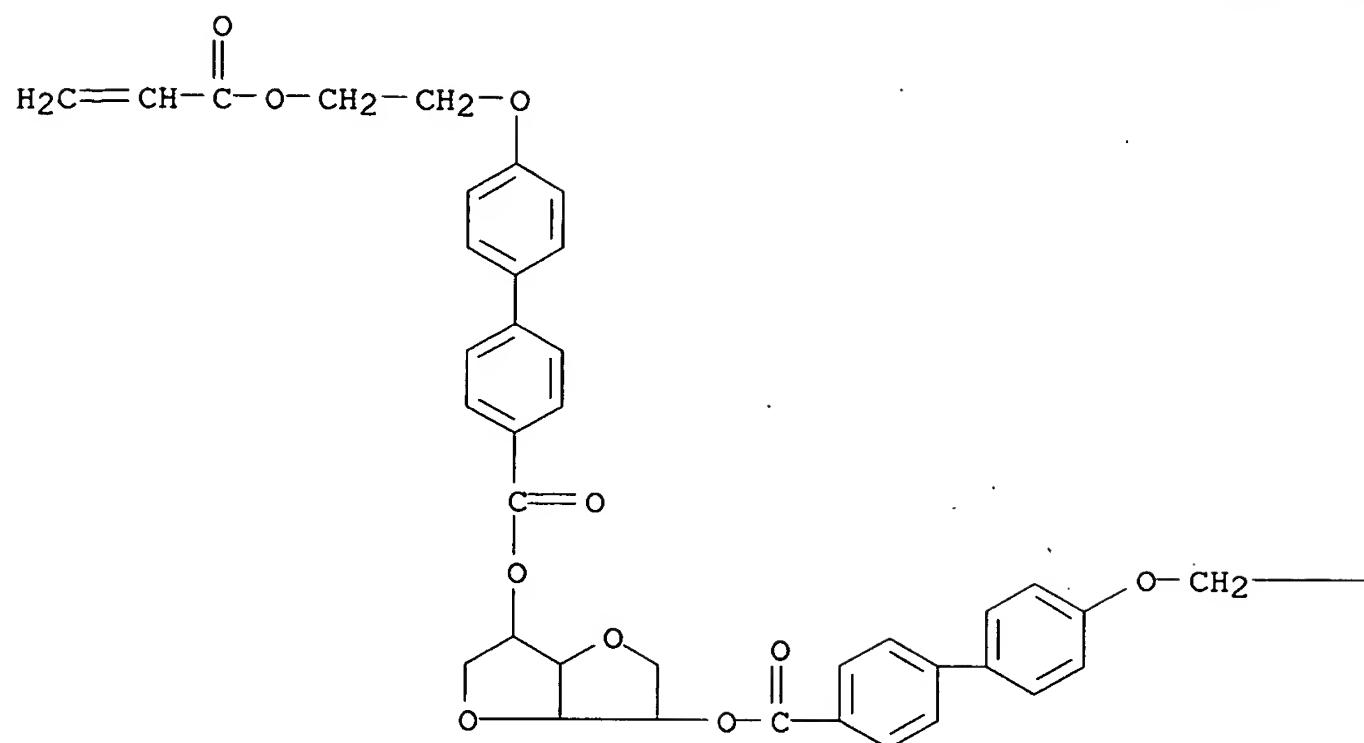
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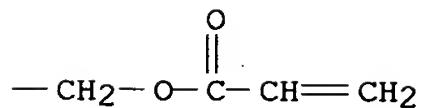
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CMF C42 H38 O12

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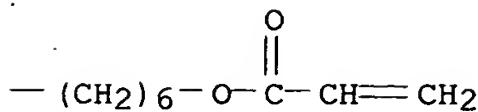
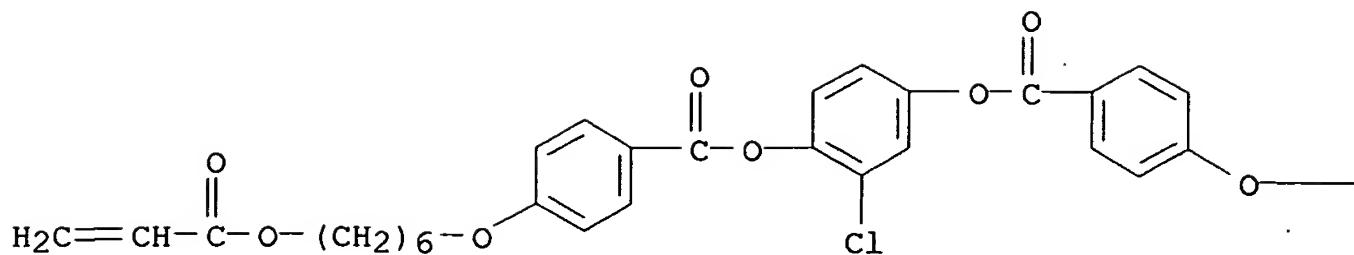


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CM 11

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CMF C38 H41 Cl O10



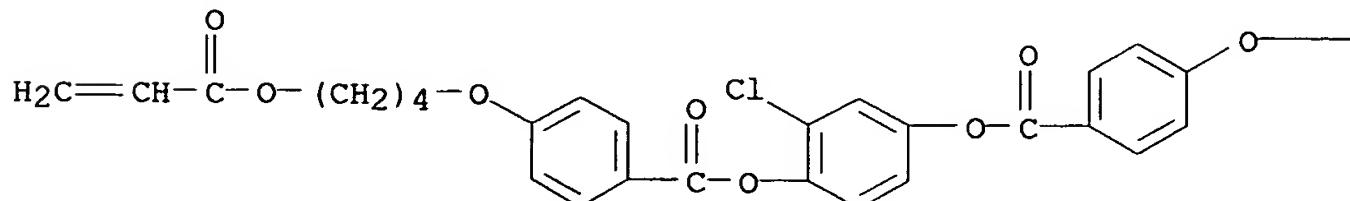
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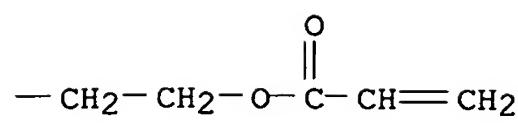
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CMF C32 H29 Cl O10



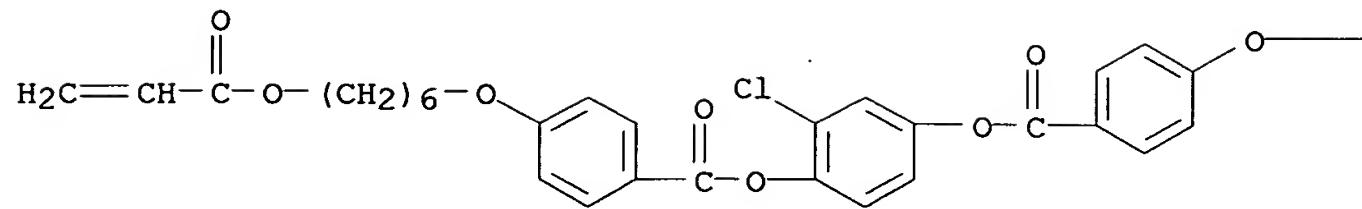
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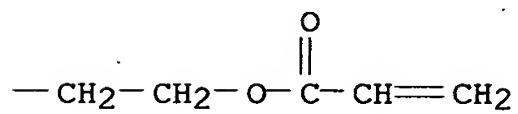
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CMF C34 H33 Cl O10

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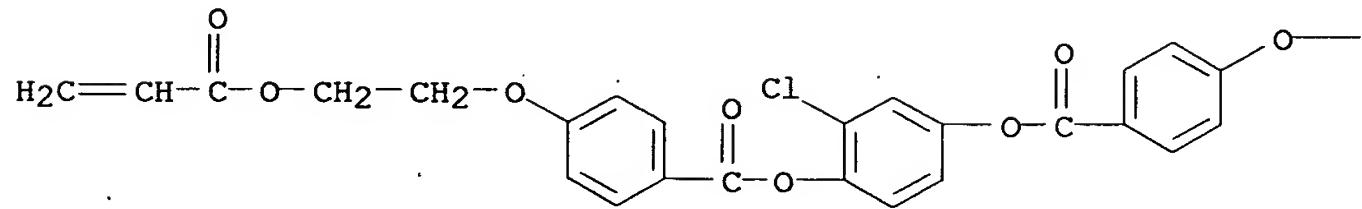
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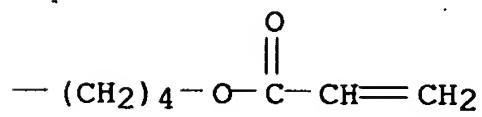
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CMF C32 H29 Cl O10

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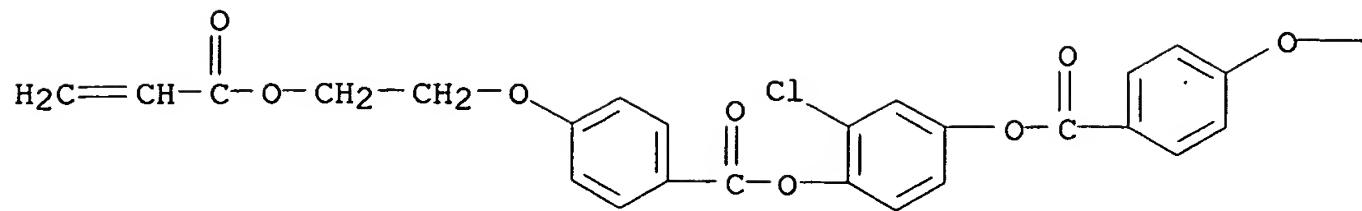
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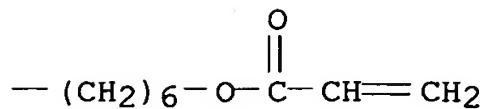
CM 4

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CMF C34 H33 Cl O10

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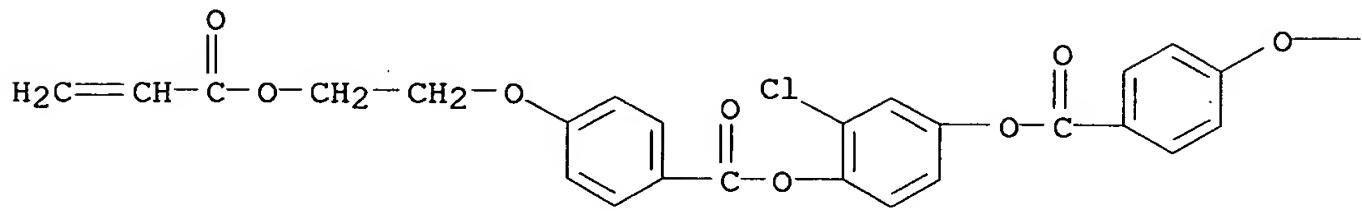
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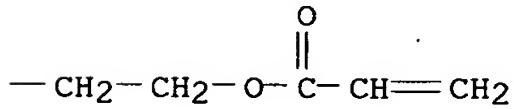
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CMF C30 H25 Cl O10

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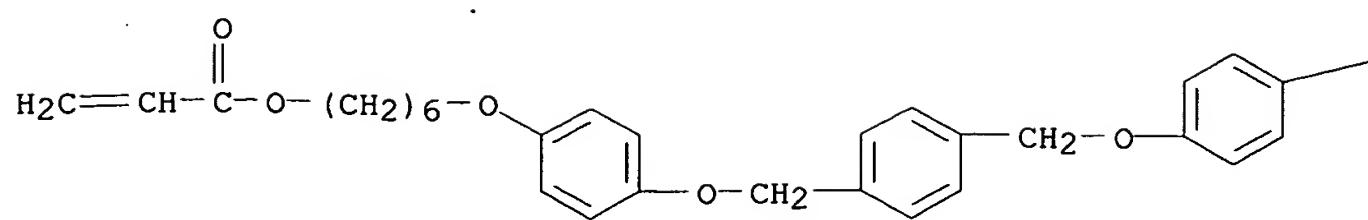
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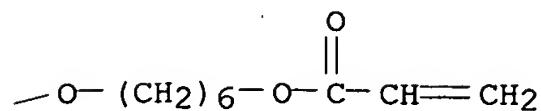
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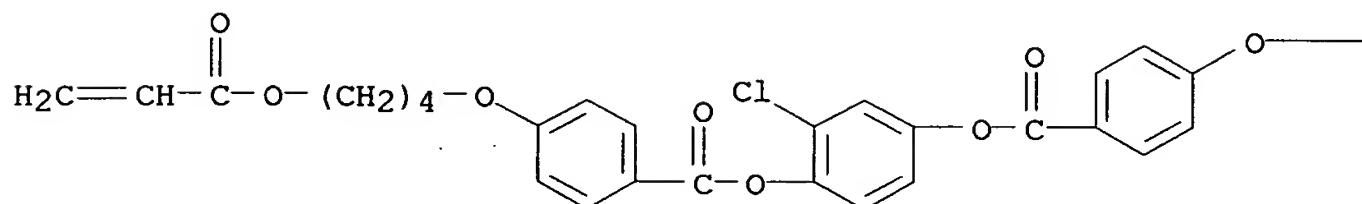
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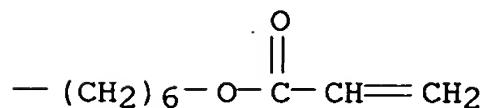
CM 7

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CMF C36 H37 Cl O10

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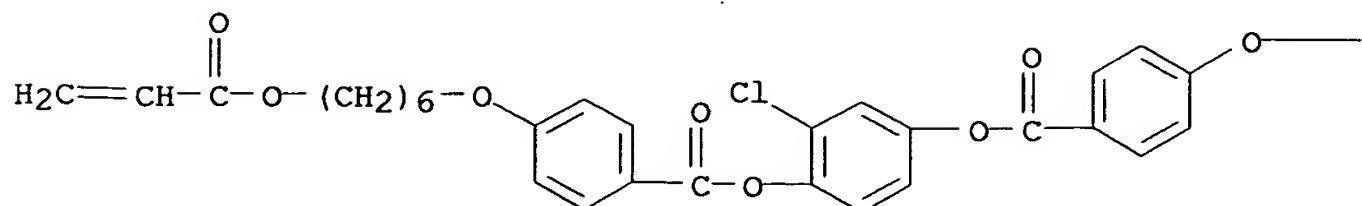
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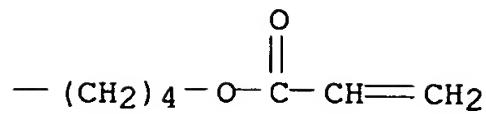
CM 8

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CMF C36 H37 Cl O10

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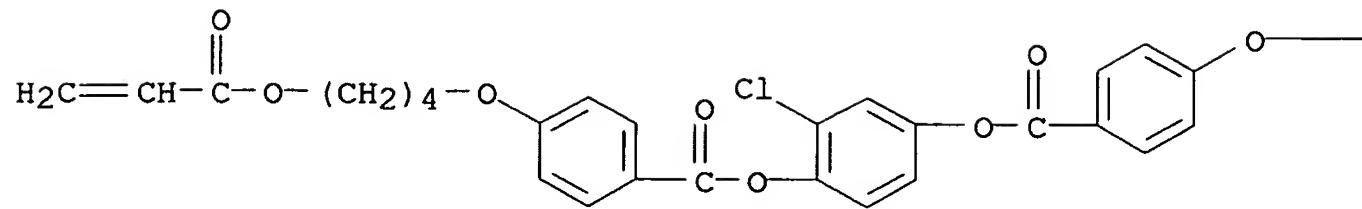
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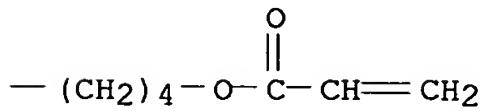
CM 9

CRN 172257-73-7  
CMF C34 H33 Cl O10

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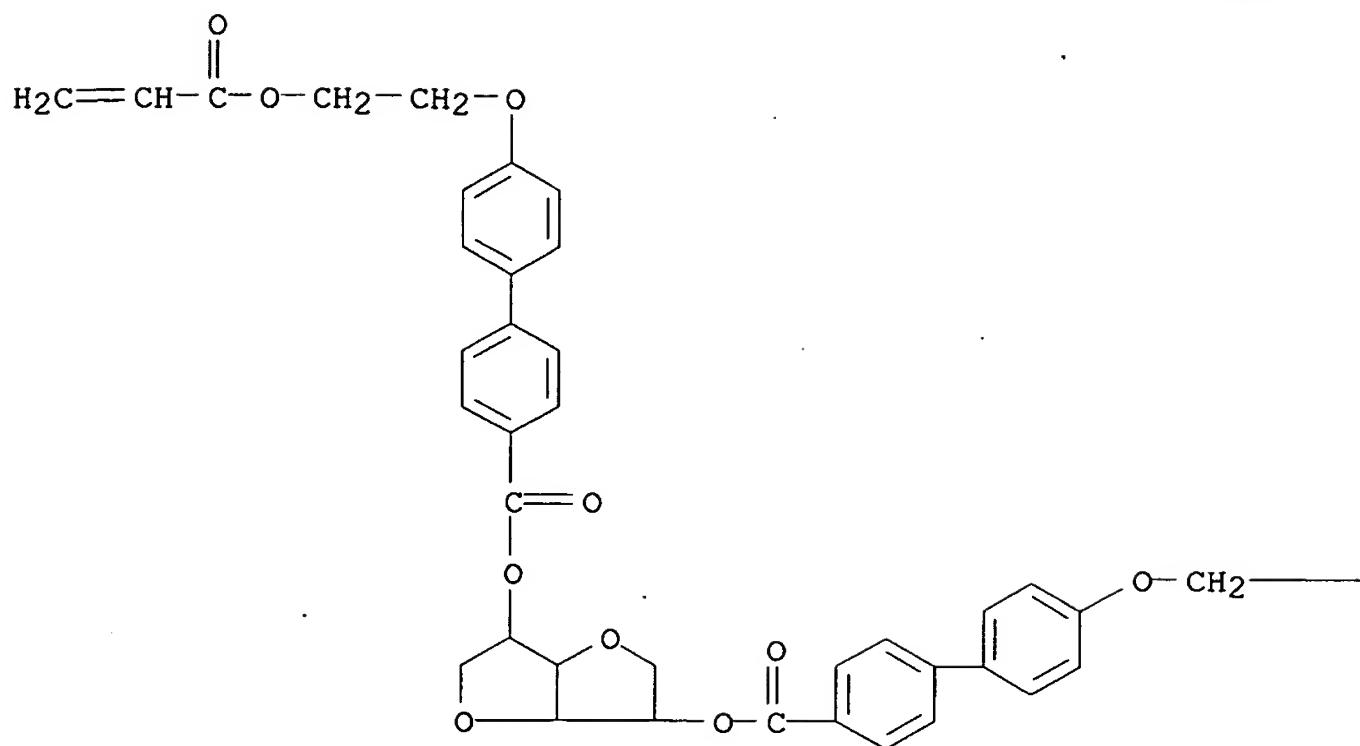
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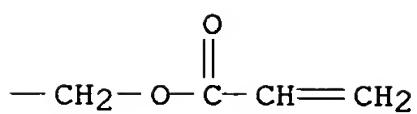
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CMF C42 H38 O12

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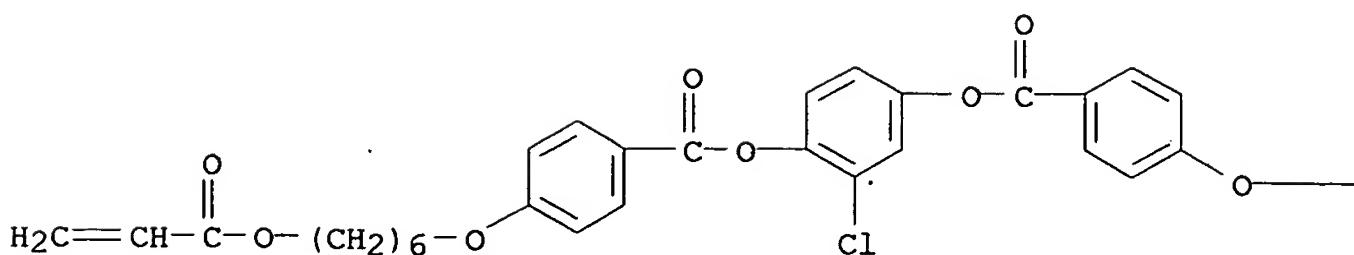
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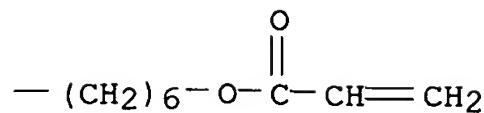


CM 11

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CMF C38 H41 Cl O10

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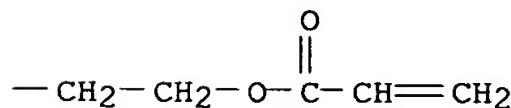
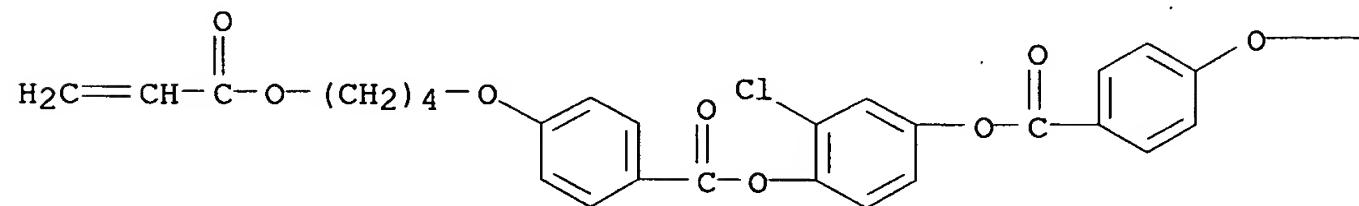
RN 172339-37-6 CAPLUS

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CM 1

CRN 172257-82-8

CMF C32 H29 Cl O10

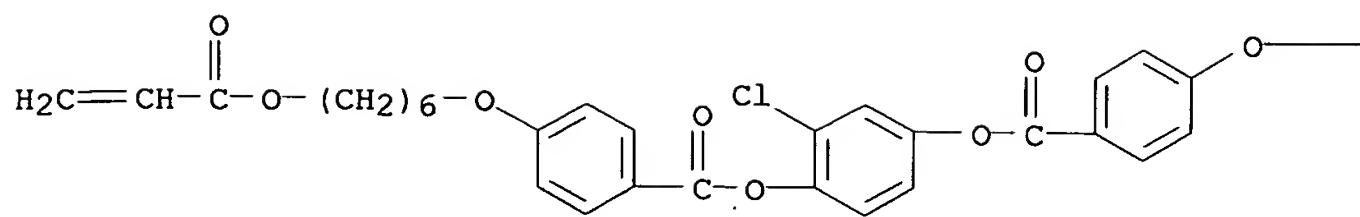


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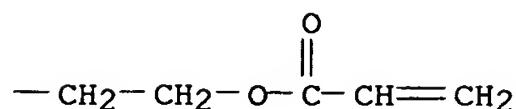
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CMF C34 H33 Cl O10

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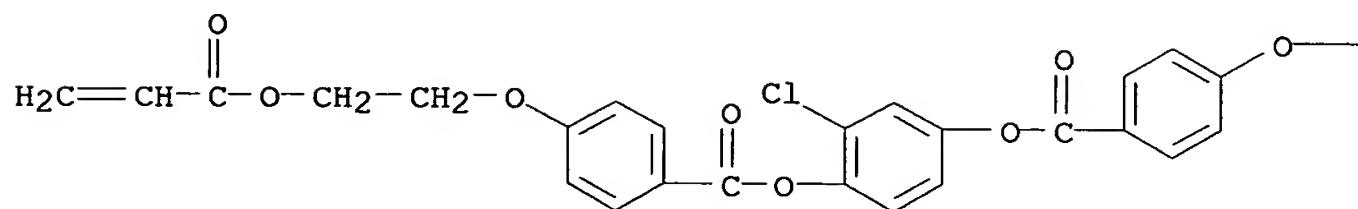
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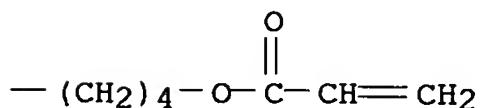
CM 3

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CMF C32 H29 Cl O10

PAGE 1-A



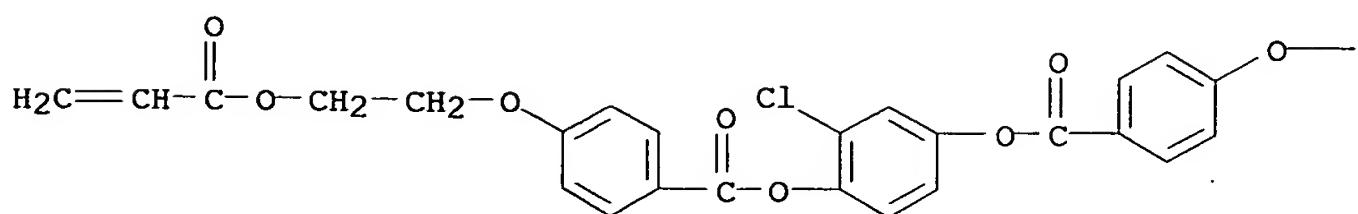
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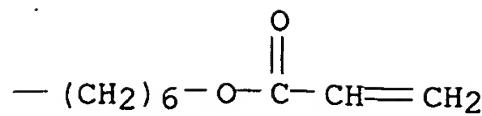
CM 4

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CMF C34 H33 Cl O10

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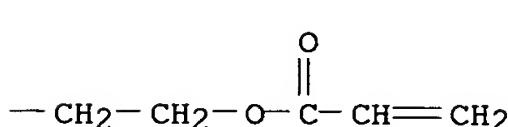
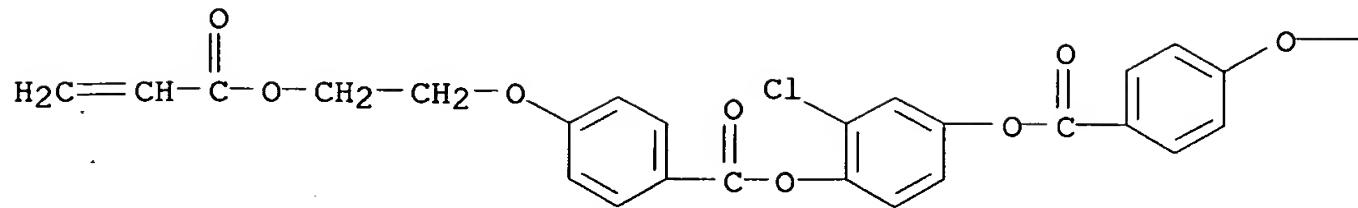
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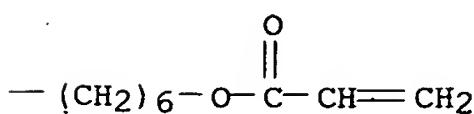
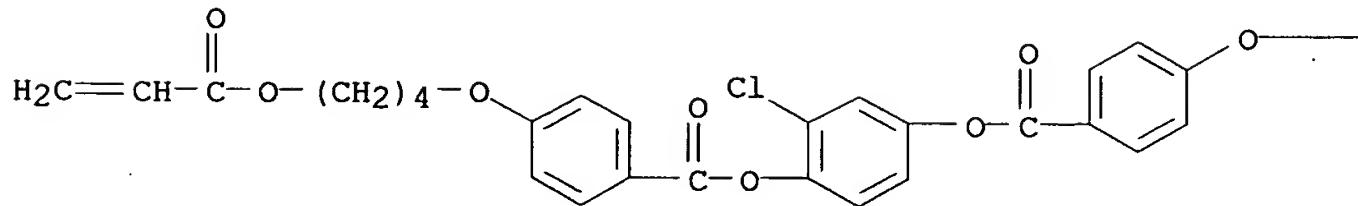
PAGE 1-A



CM 6

CRN 172257-75-9  
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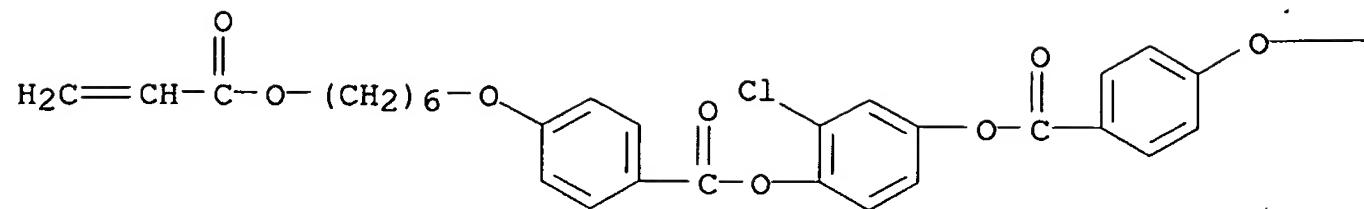
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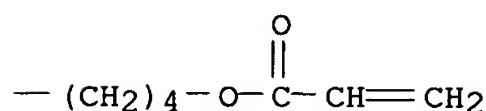
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CRN 172257-74-8  
CMF C36 H37 Cl O10

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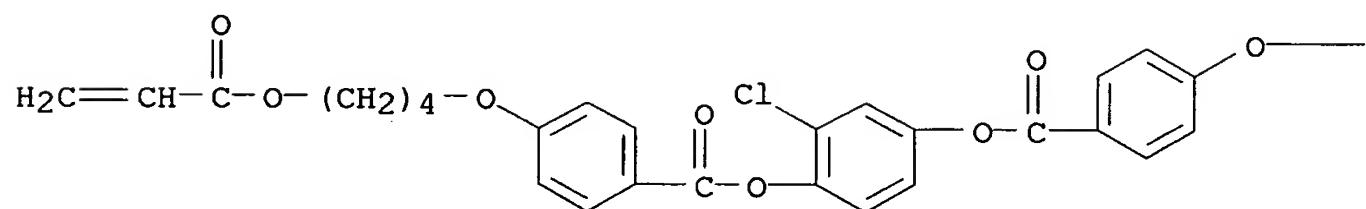
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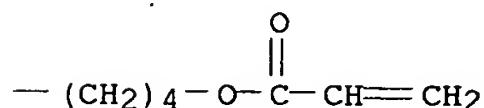
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PAGE 1-B

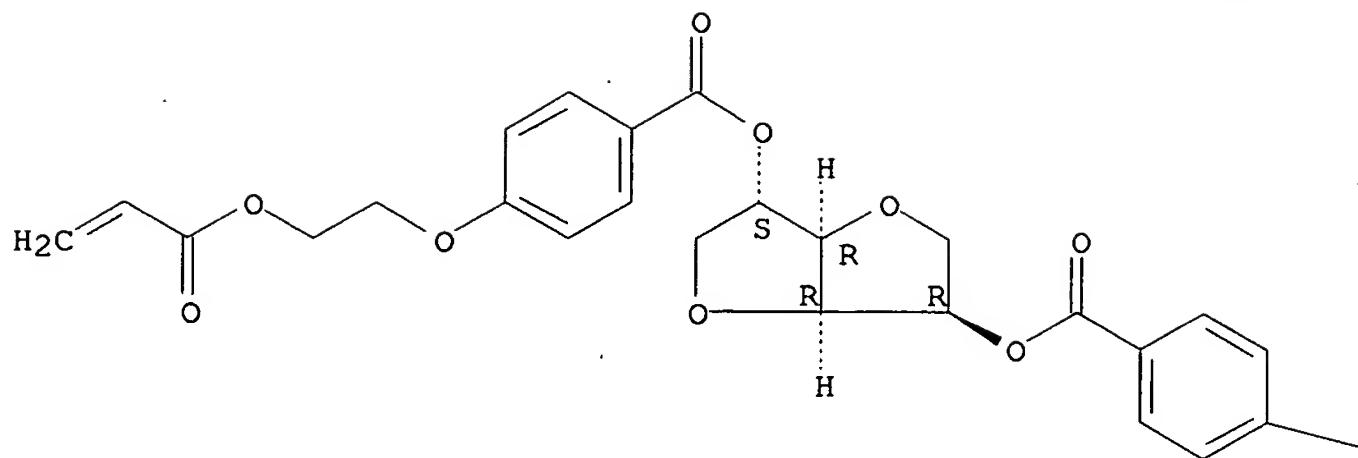


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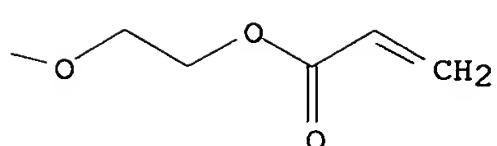
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Absolute stereochemistry.

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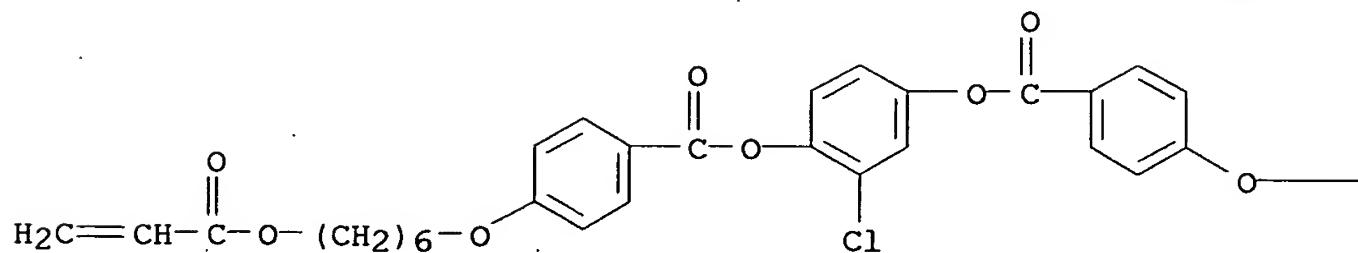
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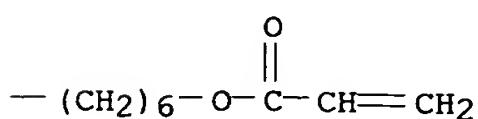
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CRN 150809-90-8  
CMF C38 H41 Cl O10

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PAGE 1-B

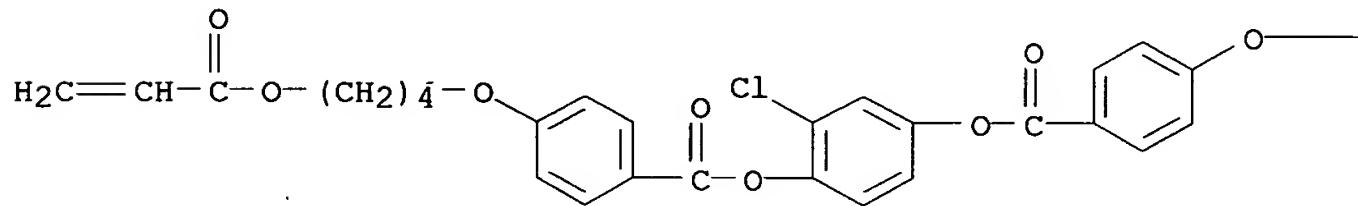


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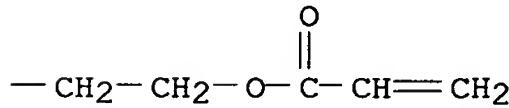
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 CMF C32 H29 Cl O10

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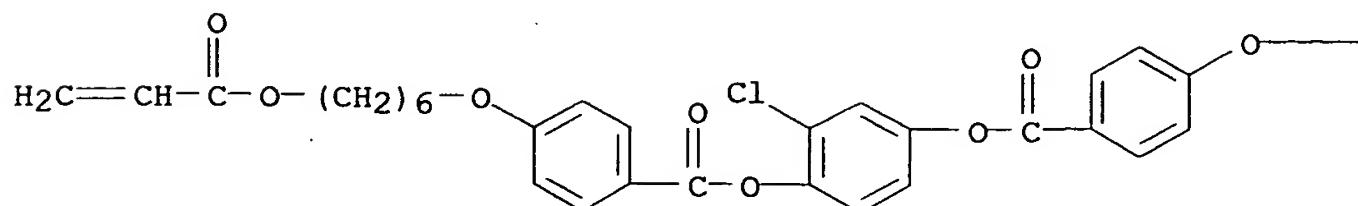
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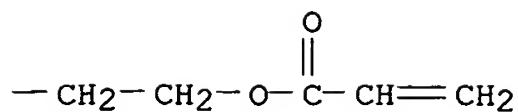
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 CMF C34 H33 Cl O10

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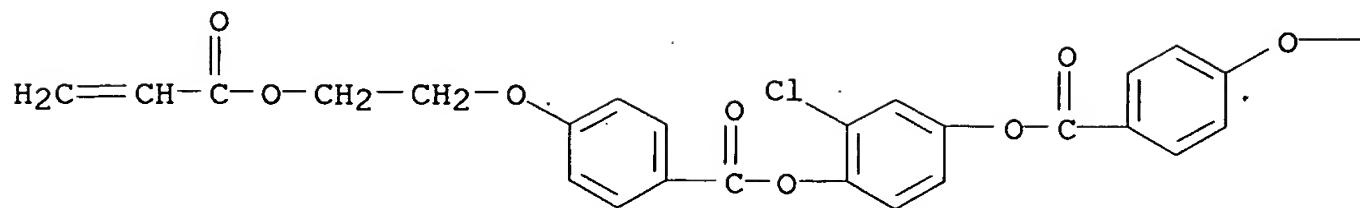
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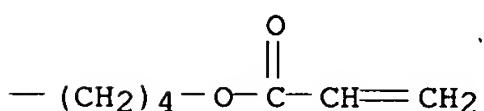
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CMF C32 H29 C1 010

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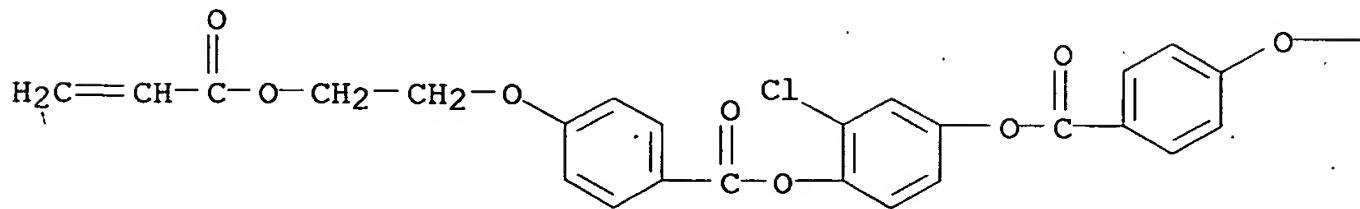
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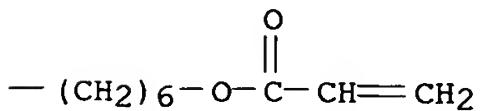
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CMF C34 H33 C1 010

PAGE 1-A



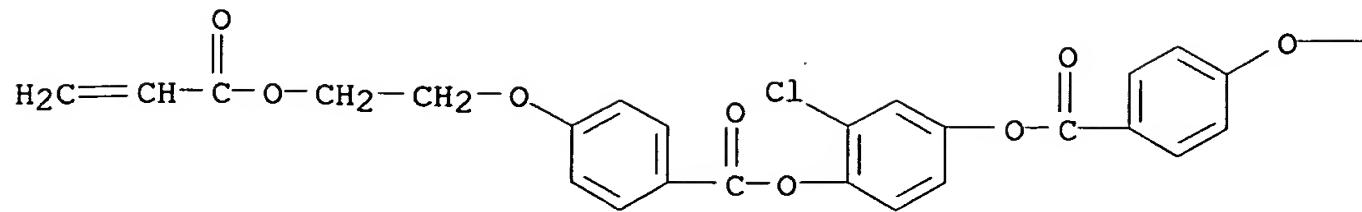
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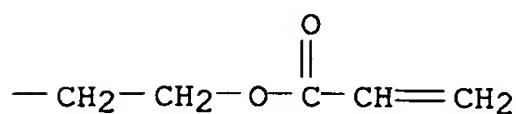
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CMF C30 H25 Cl O10

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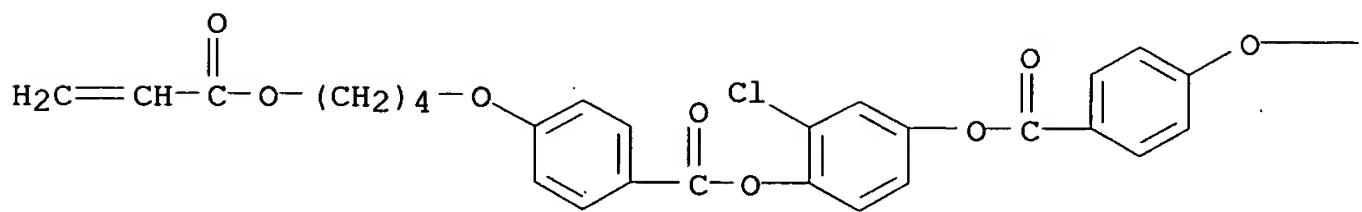
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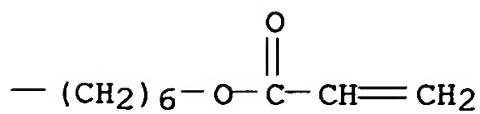
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CMF C36 H37 Cl O10

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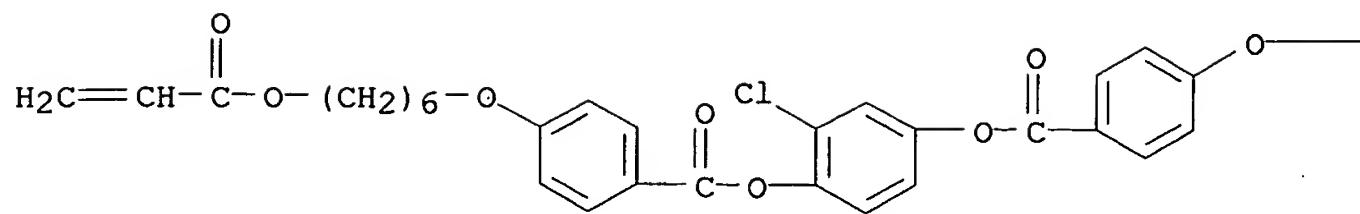
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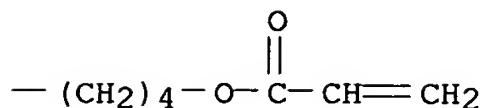
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CMF C36 H37 Cl O10

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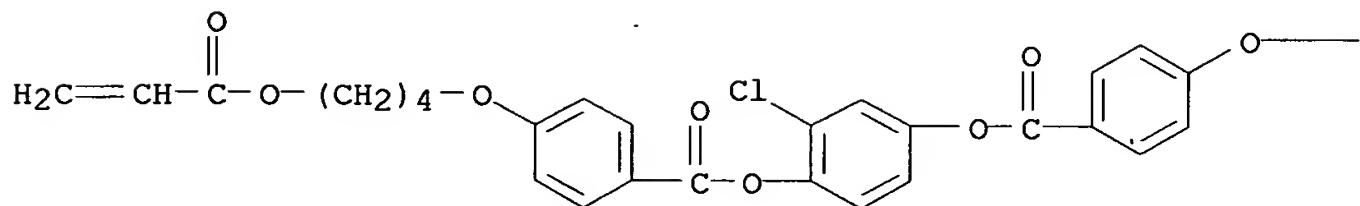
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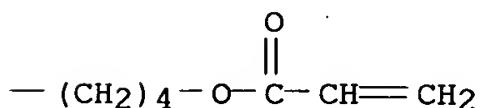
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CMF C34 H33 Cl O10

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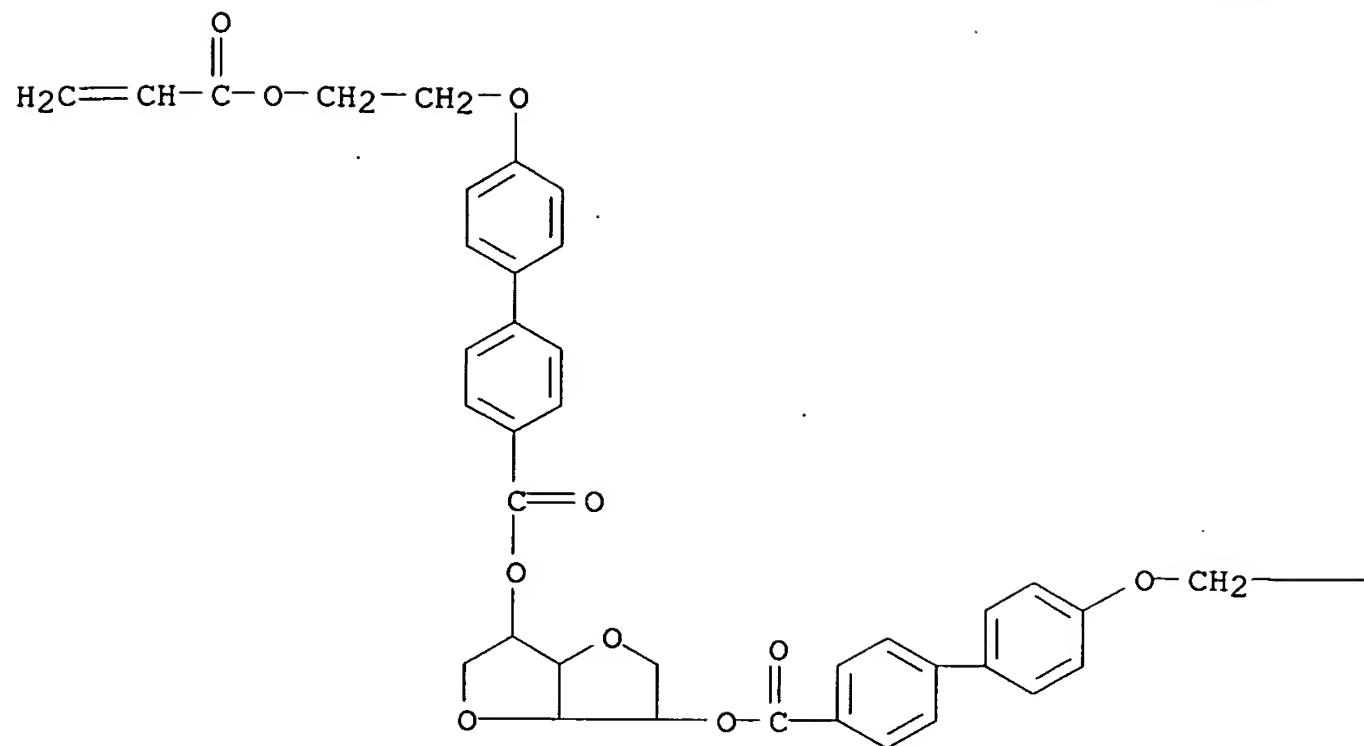
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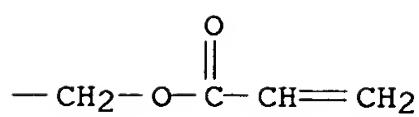
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CMF C42 H38 O12

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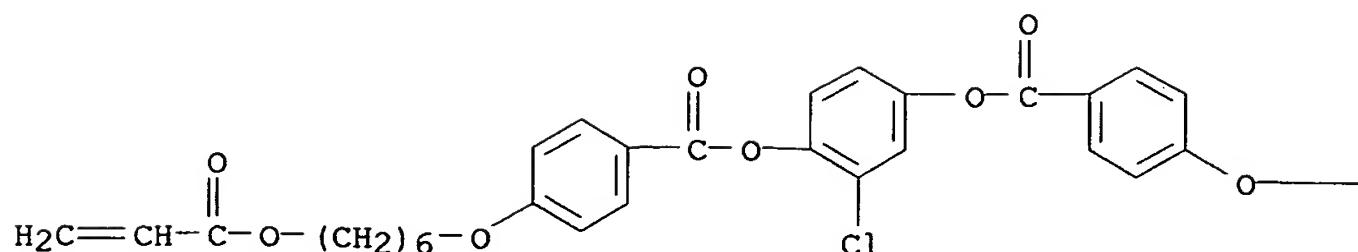
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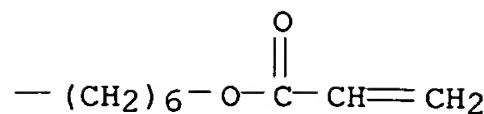


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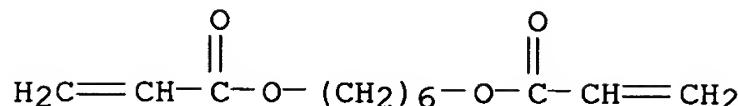
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CM 11

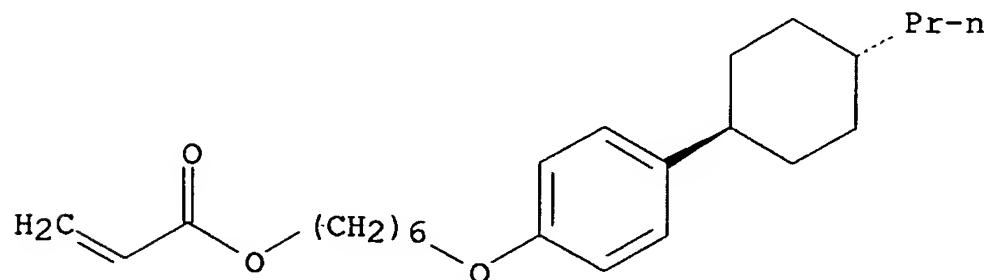
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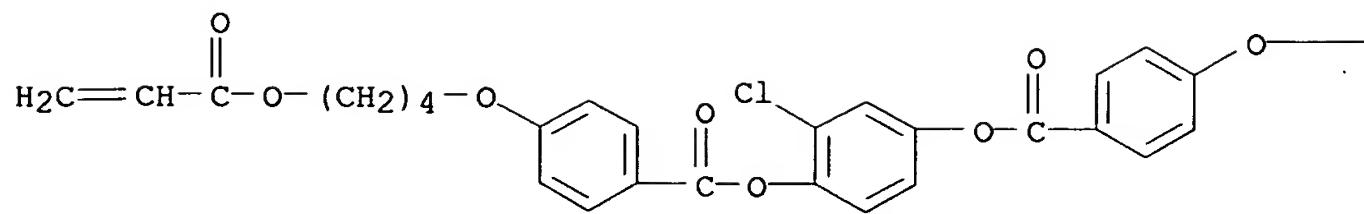
Relative stereochemistry.



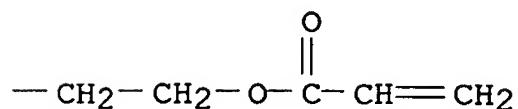
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CMF C32 H29 Cl O10

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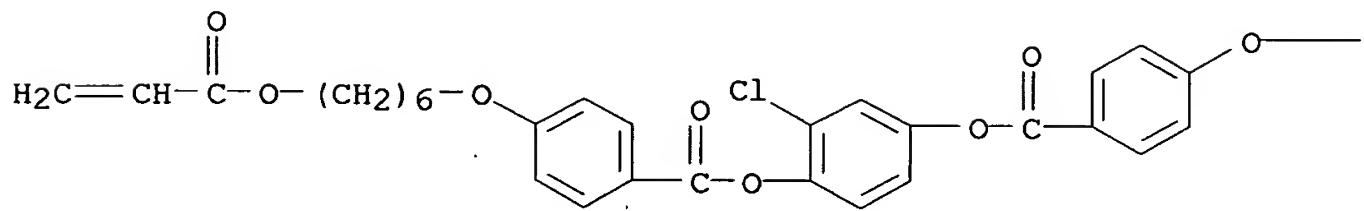
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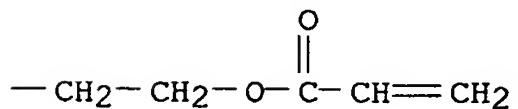
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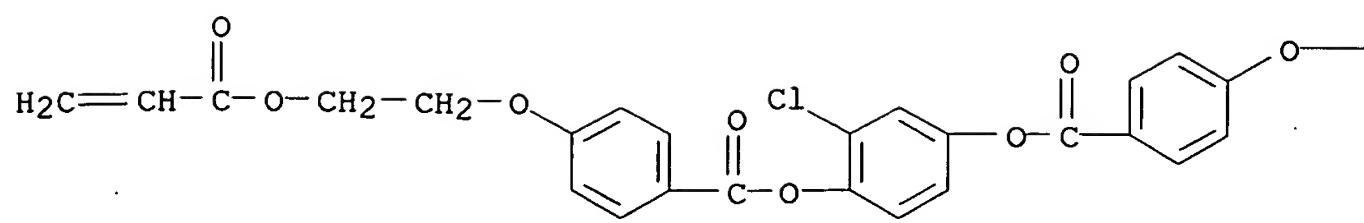
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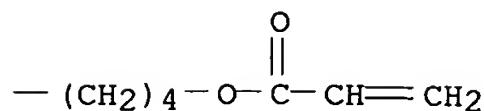
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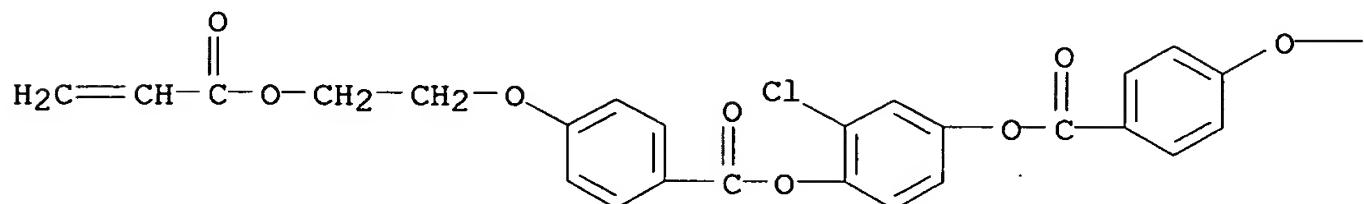
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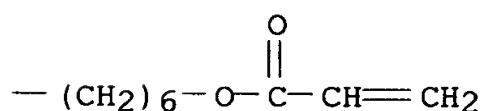
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CMF C34 H33 Cl O10

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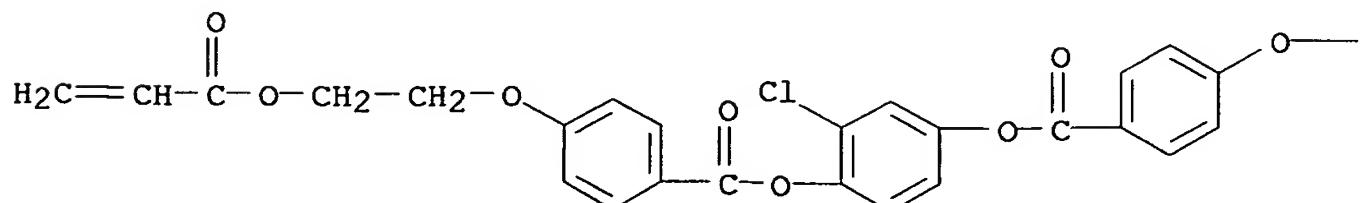
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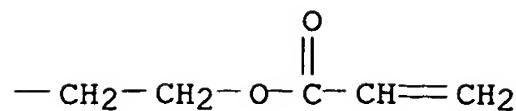
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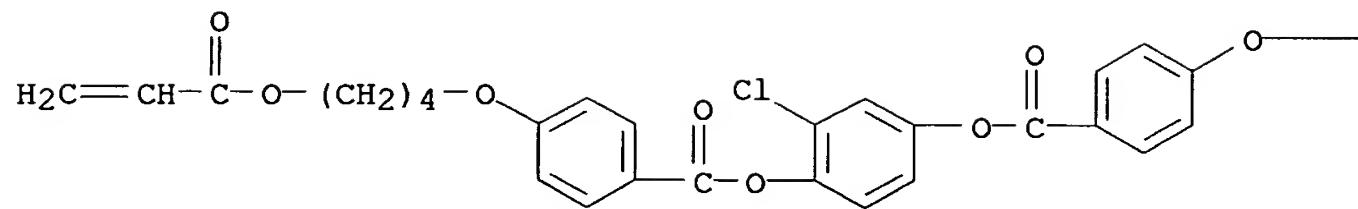
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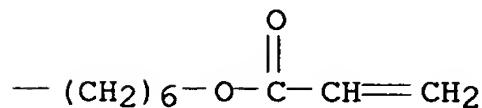
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CMF C36 H37 Cl O10

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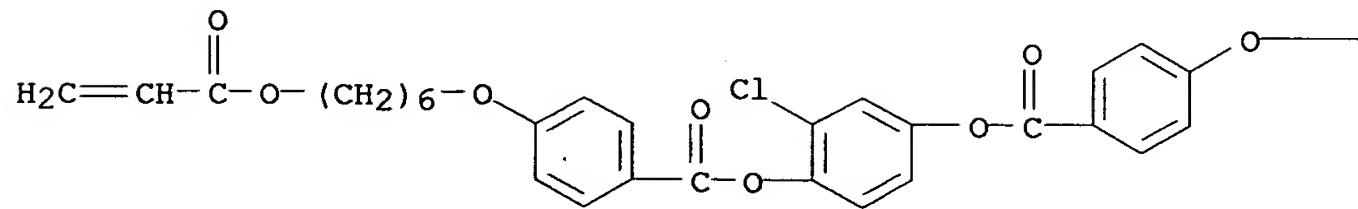
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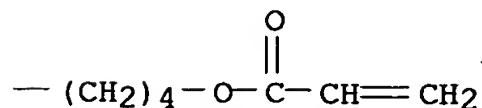
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CMF C36 H37 Cl O10

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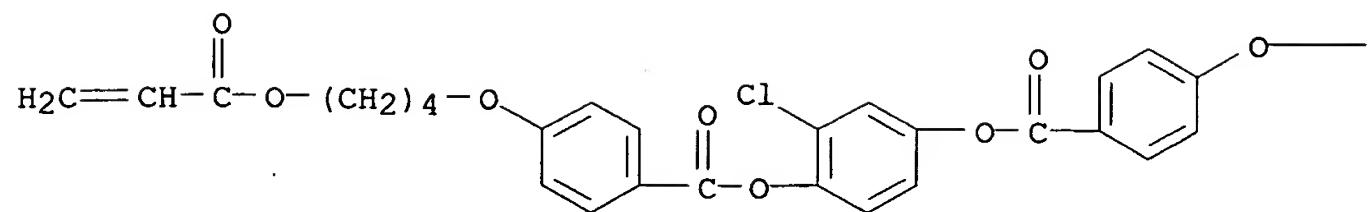
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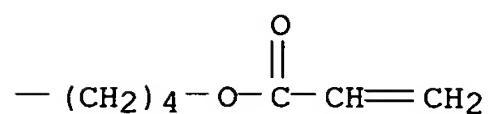
CM 9

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CMF C34 H33 Cl O10

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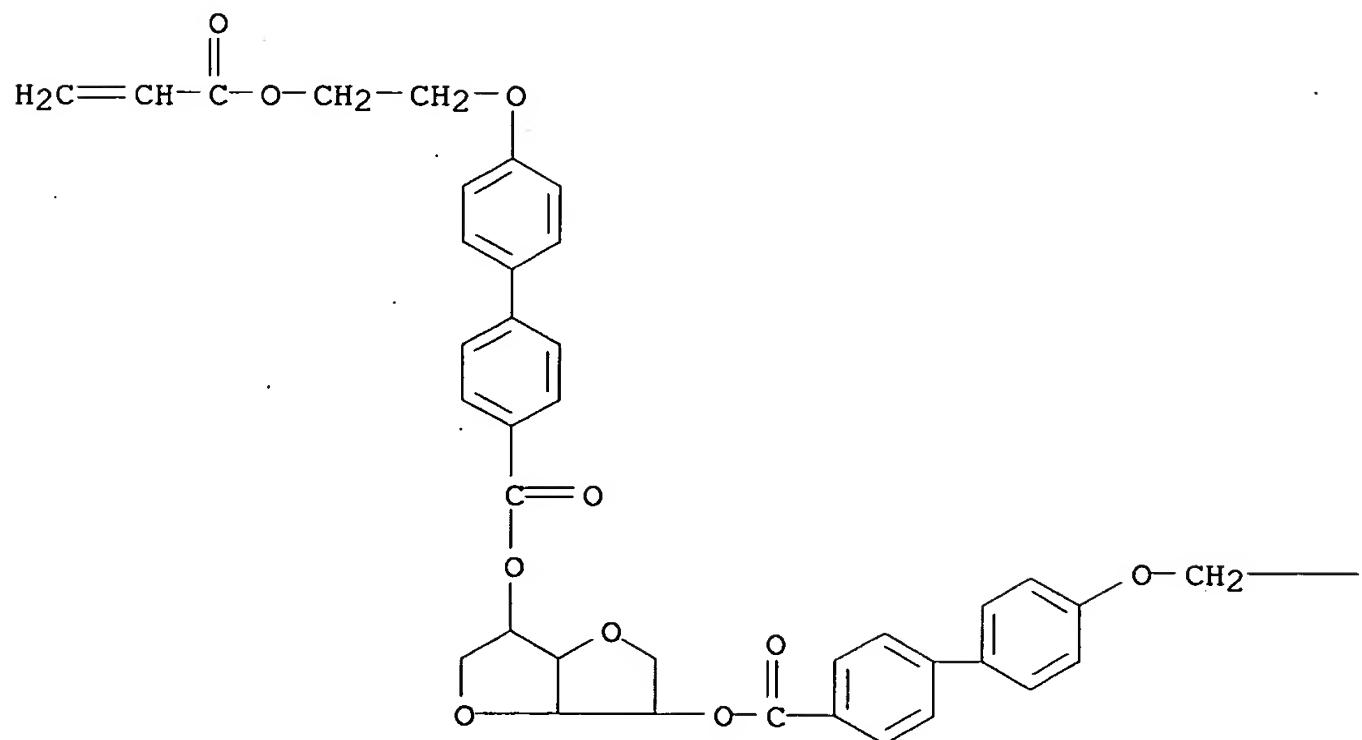
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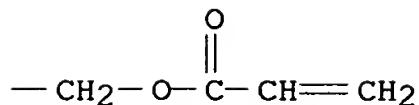


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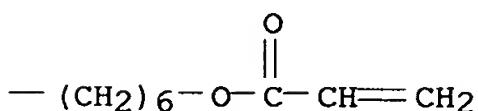
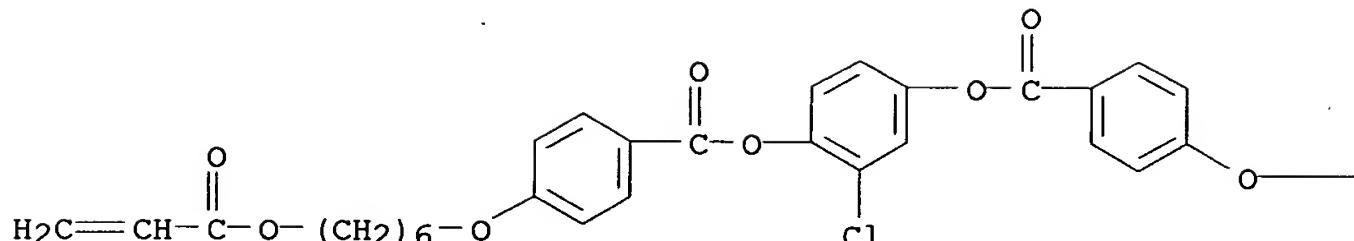
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CM 11

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CMF C38 H41 Cl O10

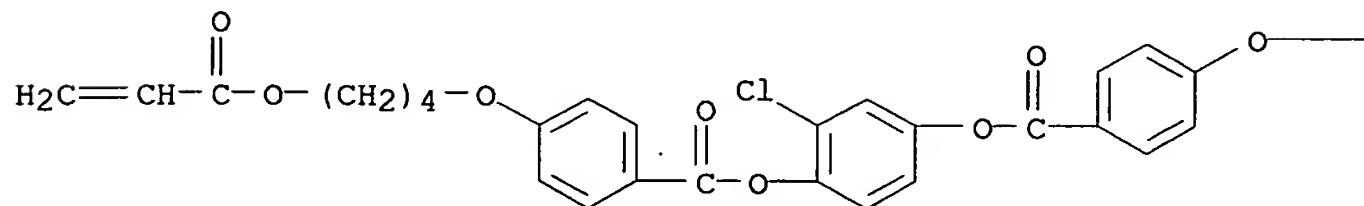
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propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

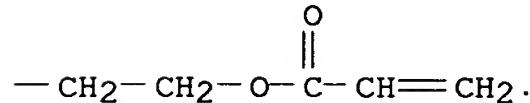
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CMF C32 H29 Cl O10

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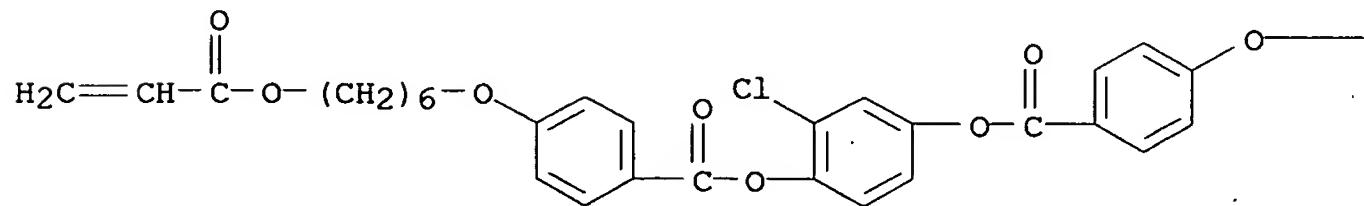
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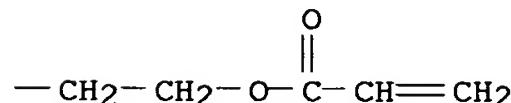
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CMF C34 H33 Cl O10

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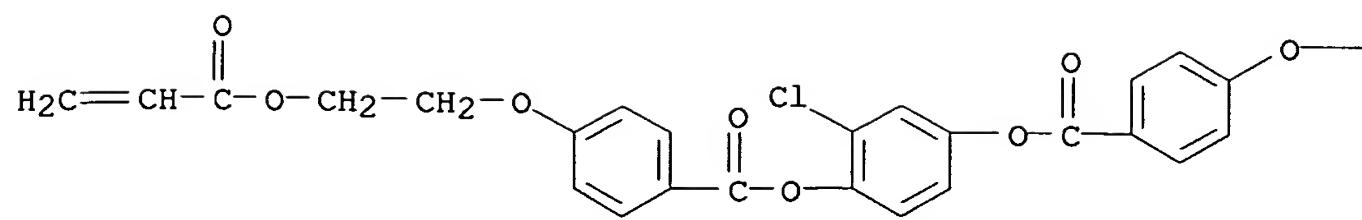
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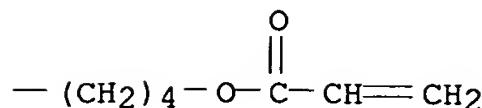
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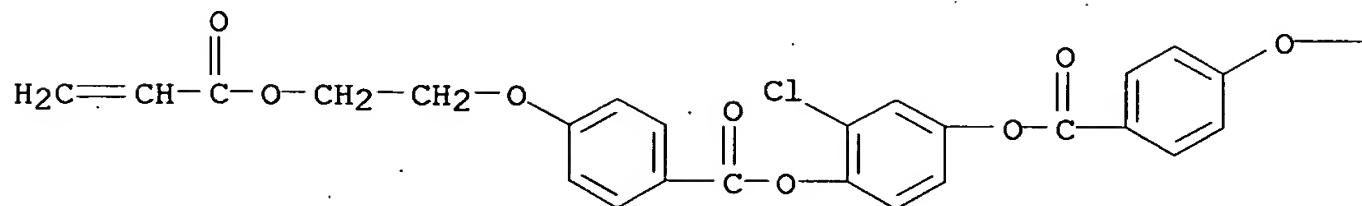
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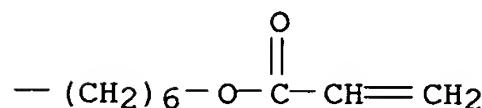
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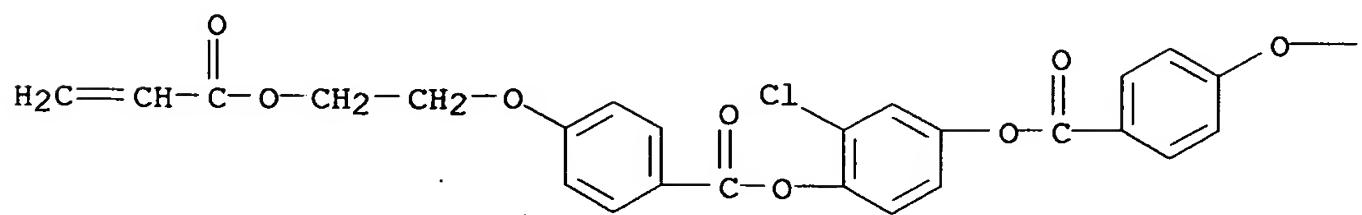
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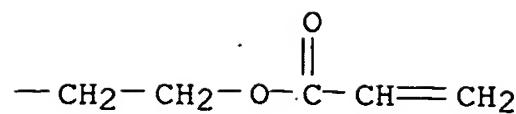
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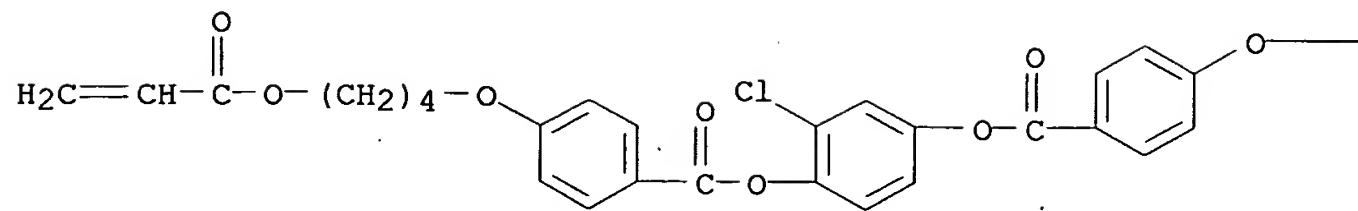
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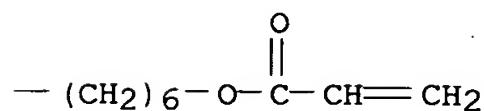
CM 6

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CMF C36 H37 Cl O10

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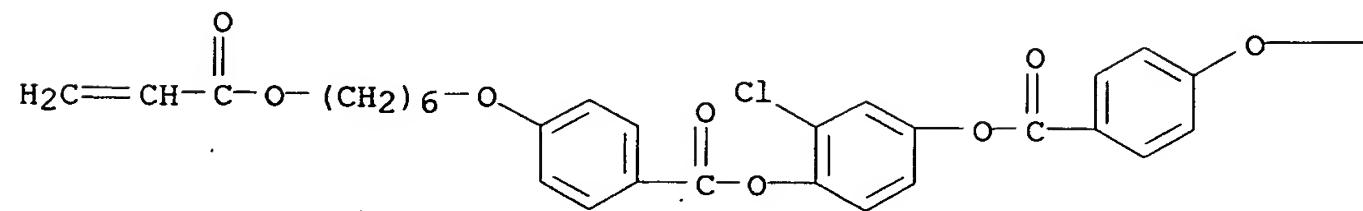
PAGE 1-B



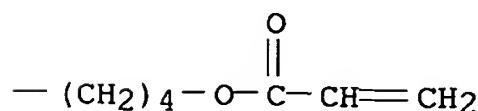
CM 7

CRN 172257-74-8  
CMF C36 H37 Cl O10

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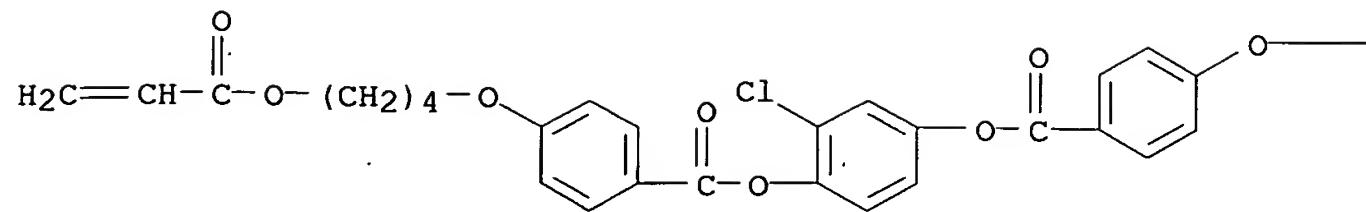
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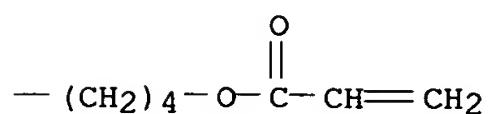
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CRN 172257-73-7  
CMF C34 H33 Cl O10

PAGE 1-A



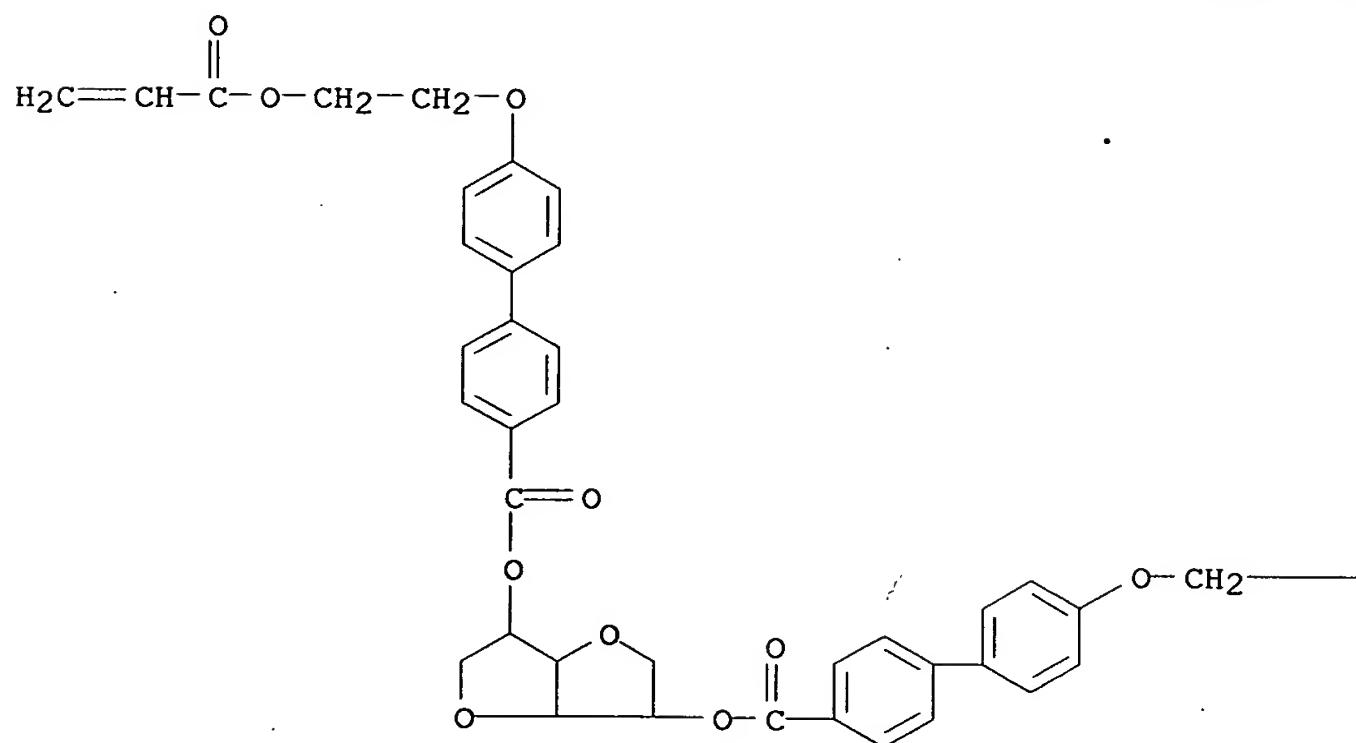
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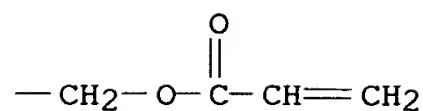


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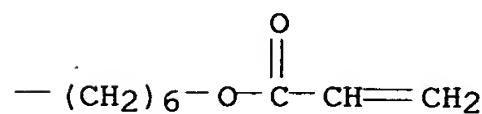
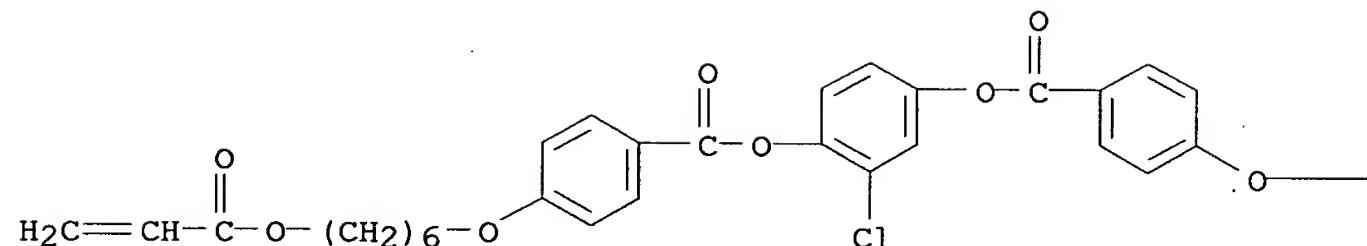
CRN 165186-75-4  
CMF C42 H38 O12

PAGE 1-A

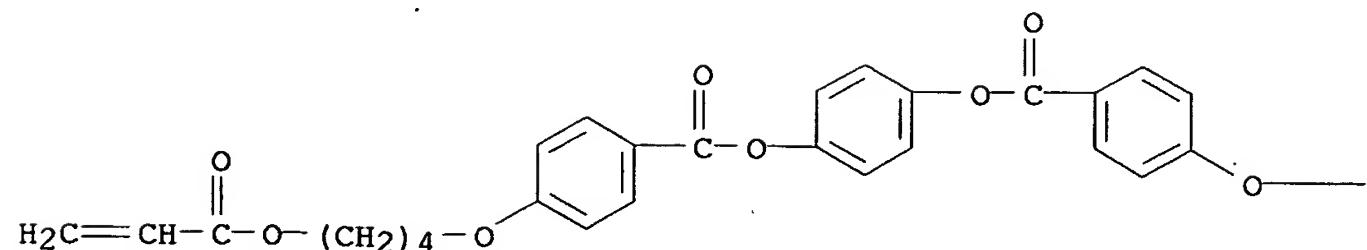


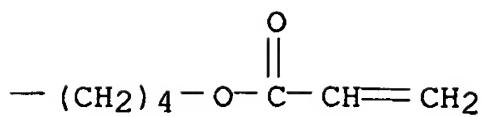


CM 10

CRN 150809-90-8  
CMF C38 H41 Cl O10

CM 11

CRN 132694-65-6  
CMF C34 H34 O10



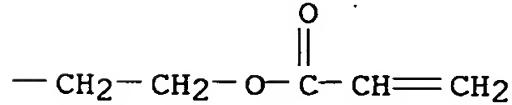
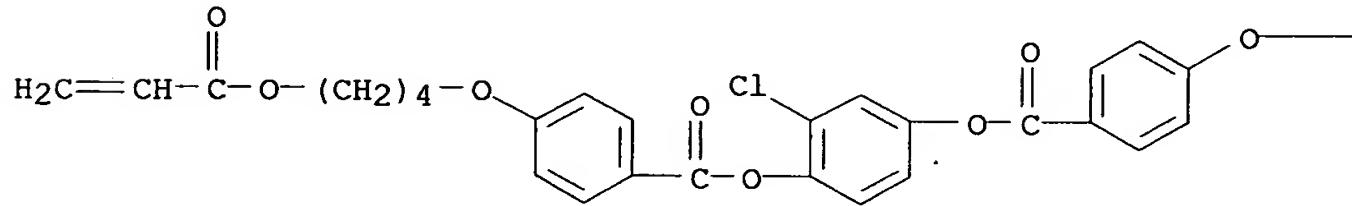
RN 172339-41-2 CAPLUS

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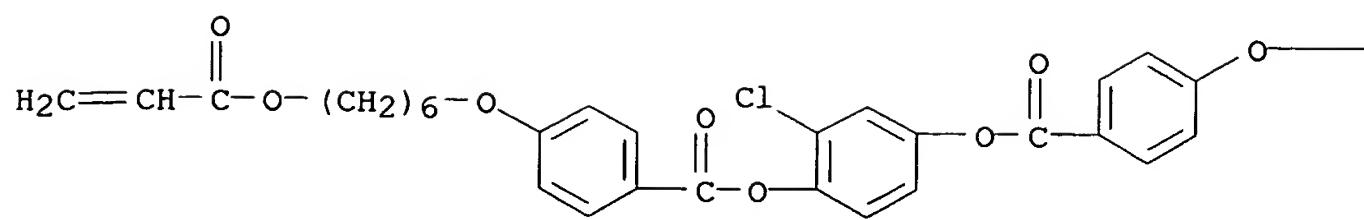


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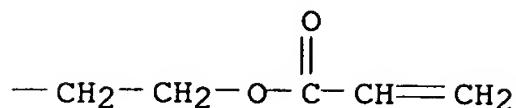
CRN 172257-81-7

CMF C34 H33 Cl O10

PAGE 1-A



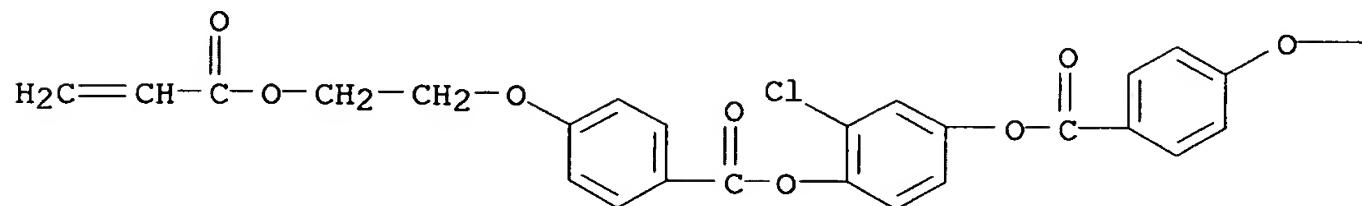
PAGE 1-B



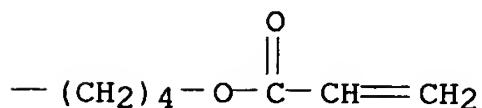
CM 3

CRN 172257-80-6  
CMF C32 H29 Cl O10

PAGE 1-A



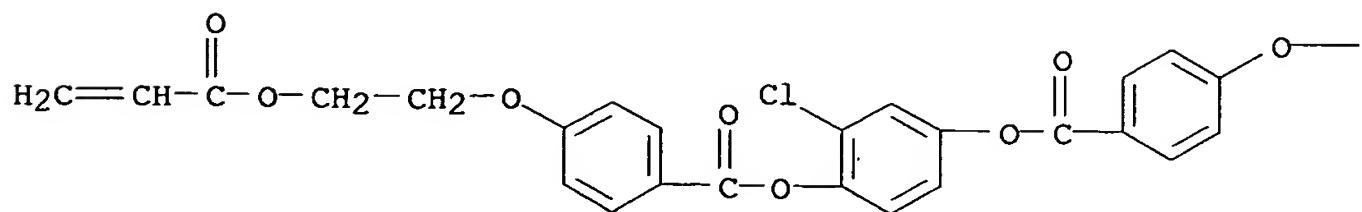
PAGE 1-B



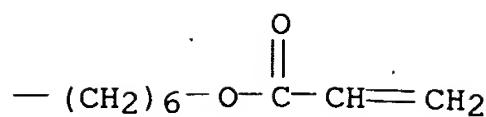
CM 4

CRN 172257-79-3  
CMF C34 H33 Cl O10

PAGE 1-A



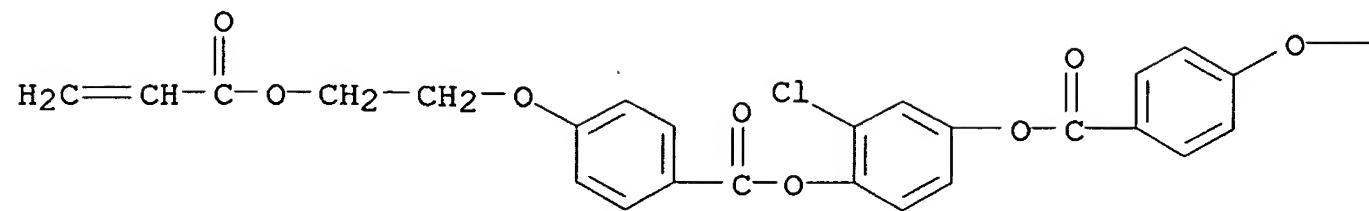
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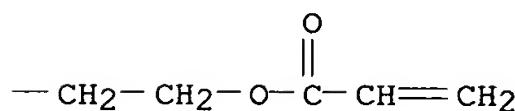
CM 5

CRN 172257-78-2  
CMF C30 H25 Cl O10

PAGE 1-A



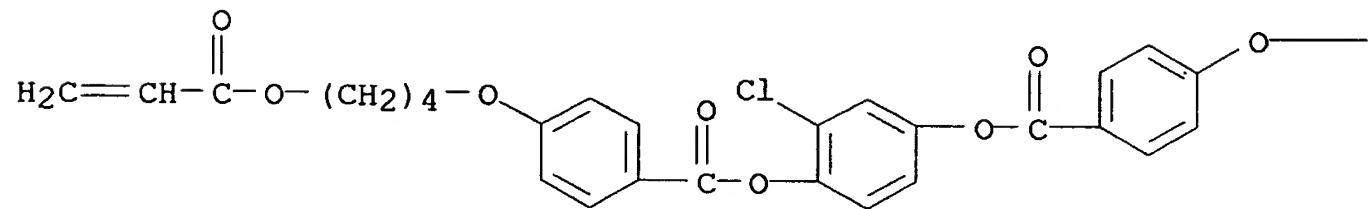
PAGE 1-B



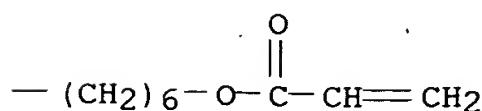
CM 6

CRN 172257-75-9  
CMF C36 H37 Cl O10

PAGE 1-A



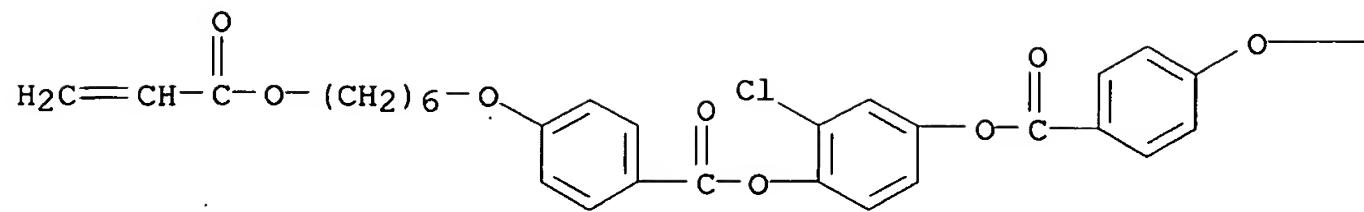
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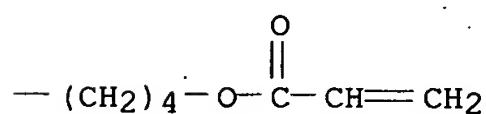
CM 7

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CMF C36 H37 Cl O10

PAGE 1-A



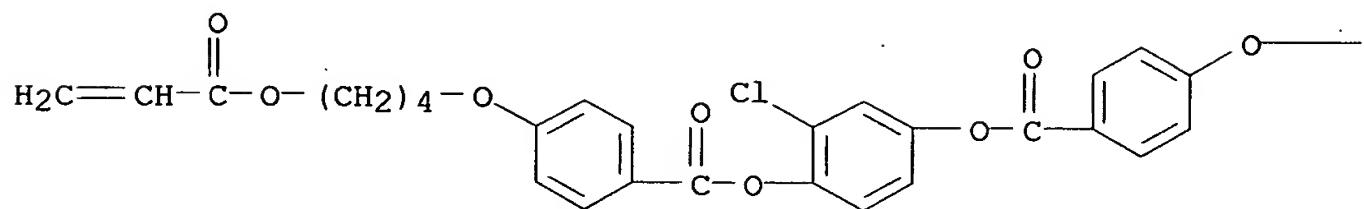
PAGE 1-B



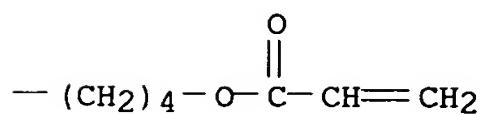
CM 8

CRN 172257-73-7  
CMF C34 H33 Cl O10

PAGE 1-A



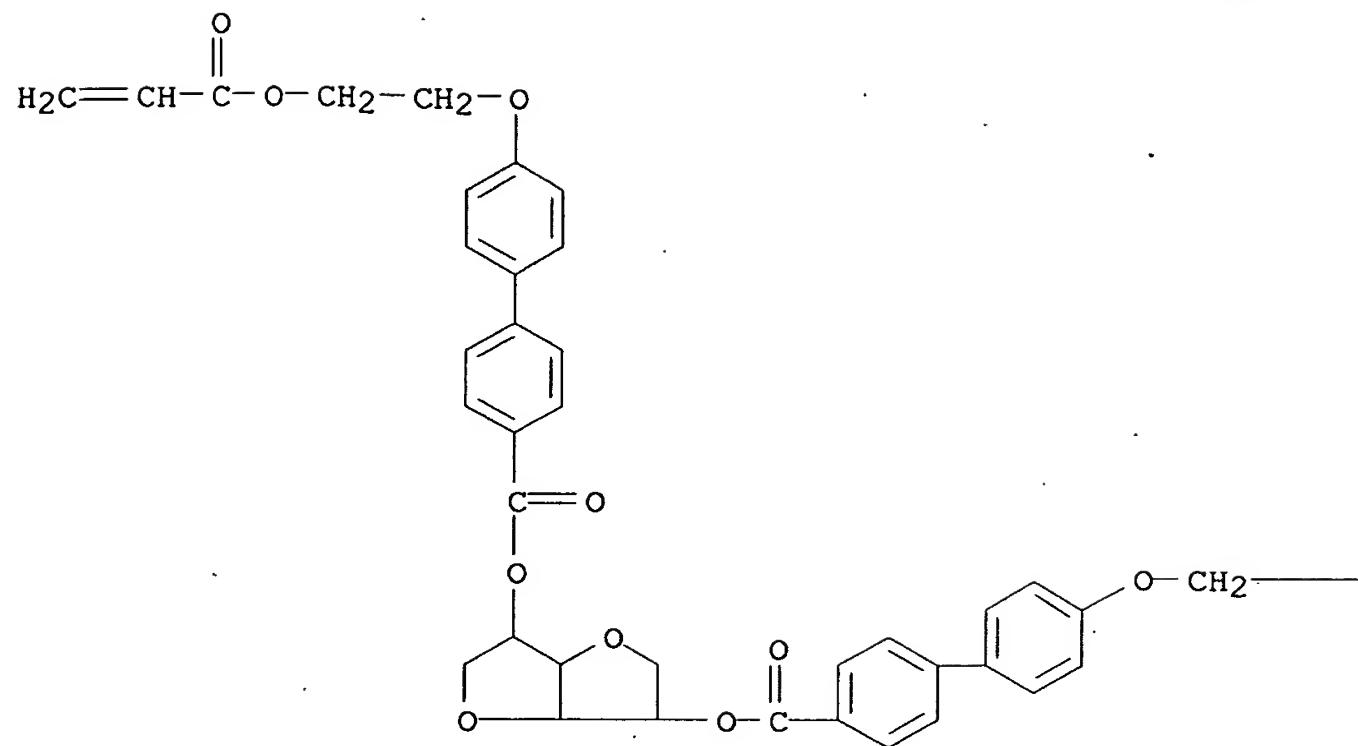
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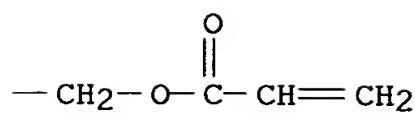
CM 9

CRN 165186-75-4  
CMF C42 H38 O12

PAGE 1-A



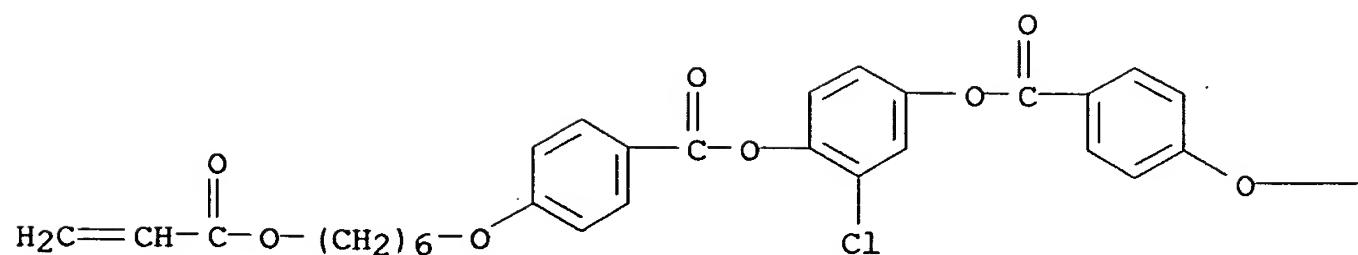
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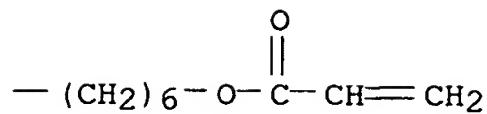


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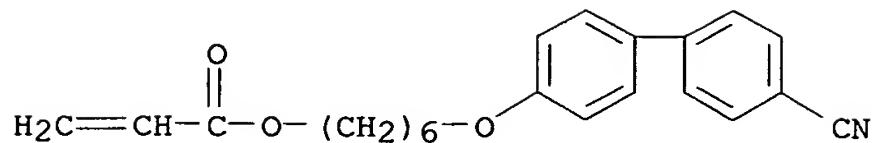
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PAGE 1-A



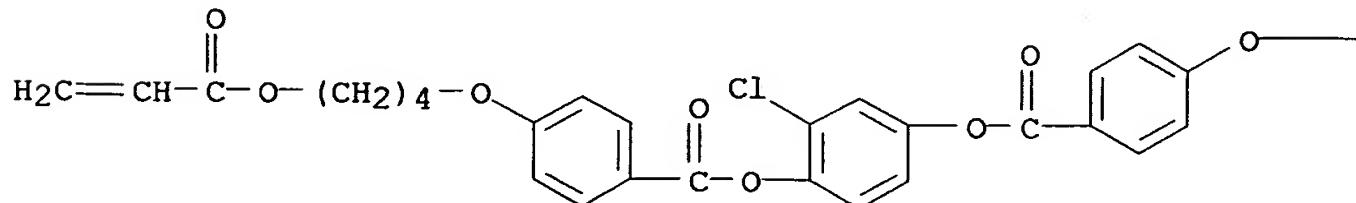


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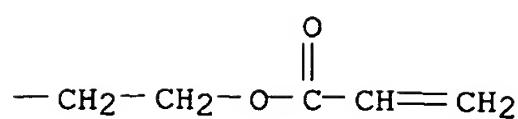
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CMF C22 H23 N O3

RN 172487-01-3 CAPLUS  
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CRN 172257-82-8  
CMF C32 H29 Cl O10

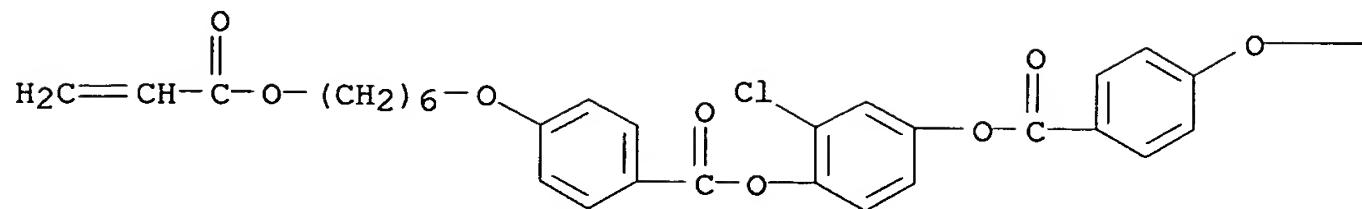
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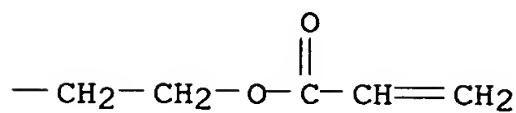
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CMF C34 H33 Cl O10

PAGE 1-A



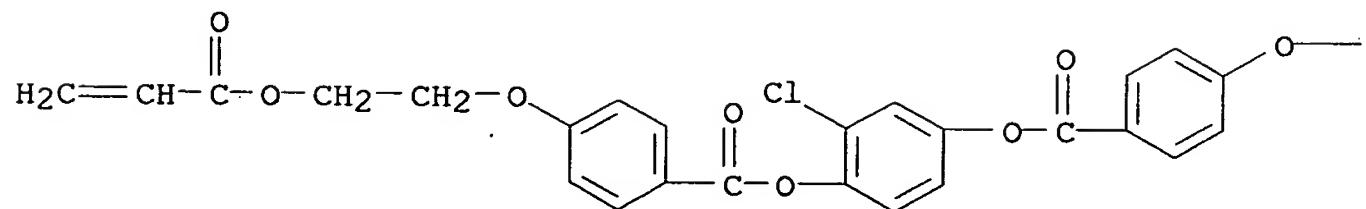
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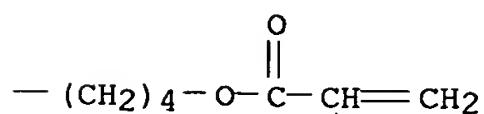
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CMF C32 H29 Cl O10

PAGE 1-A



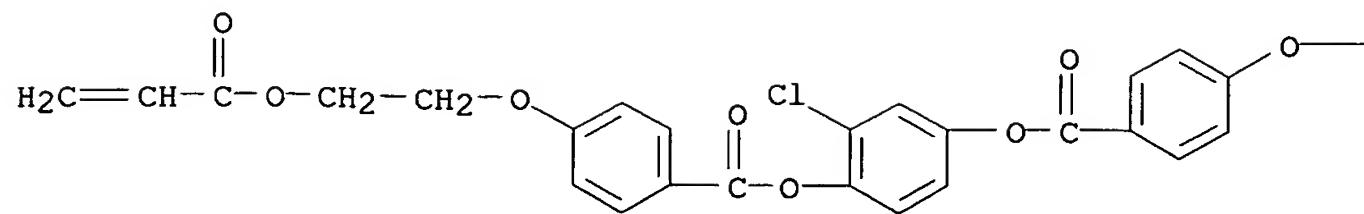
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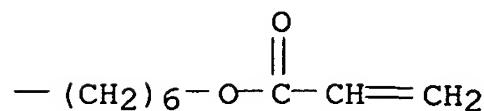
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CRN 172257-79-3  
CMF C34 H33 Cl O10

PAGE 1-A



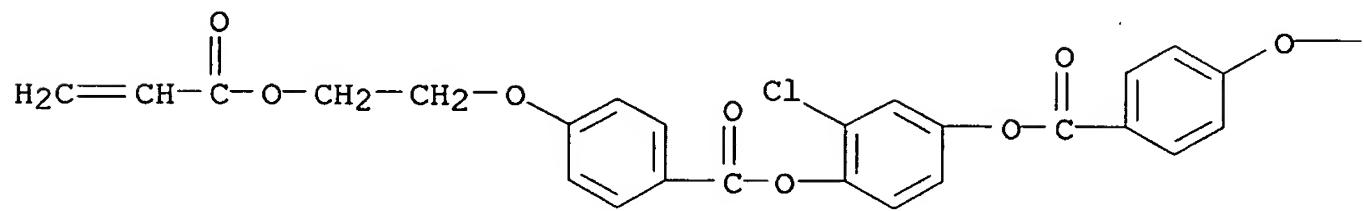
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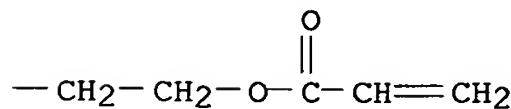
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CRN 172257-78-2  
CMF C30 H25 Cl O10

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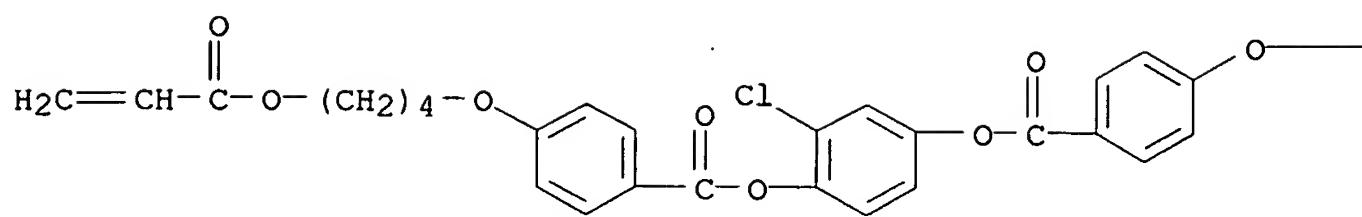
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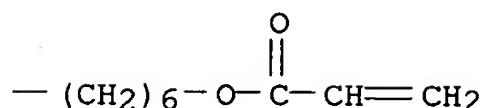
CM 6

CRN 172257-75-9  
CMF C36 H37 Cl O10

PAGE 1-A



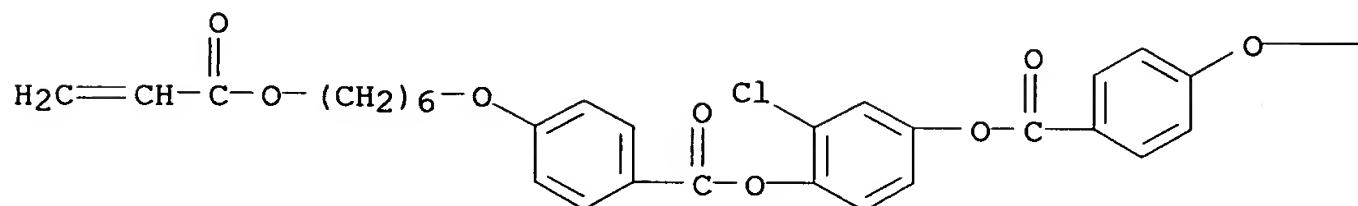
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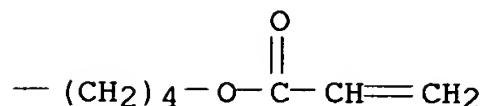
CM 7

CRN 172257-74-8  
CMF C36 H37 Cl O10

PAGE 1-A



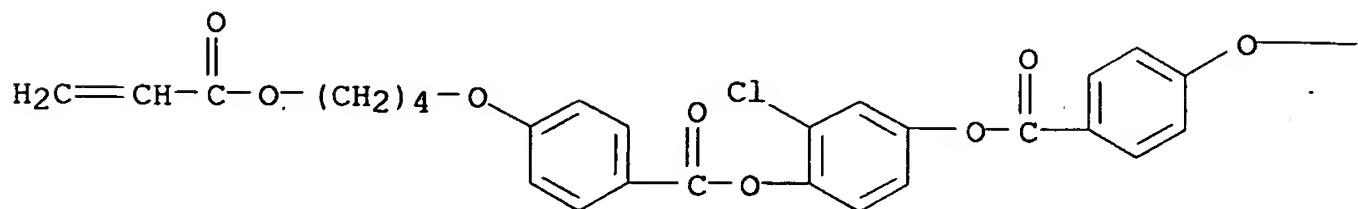
PAGE 1-B



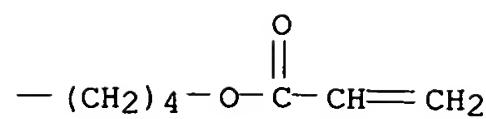
CM 8

CRN 172257-73-7  
CMF C34 H33 Cl O10

PAGE 1-A



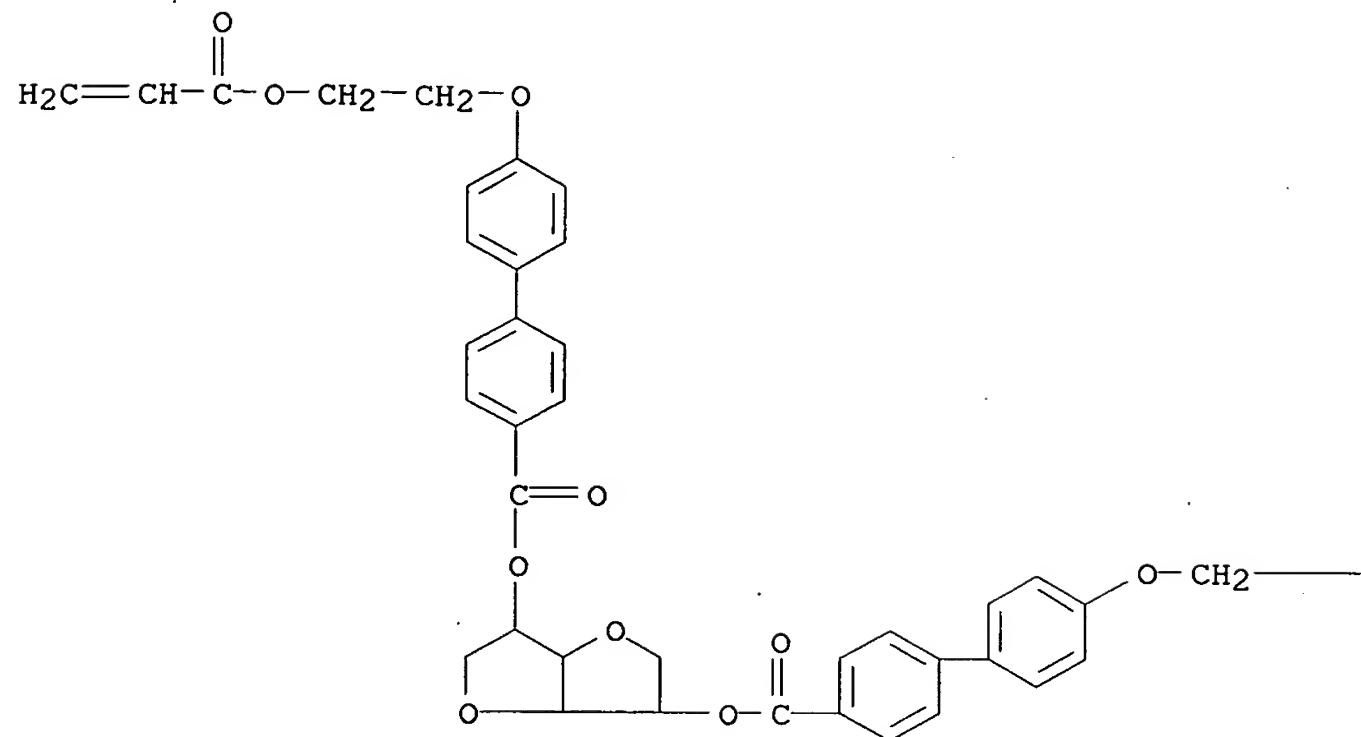
PAGE 1-B



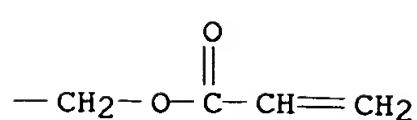
CM 9

CRN 165186-75-4  
CMF C42 H38 O12

PAGE 1-A



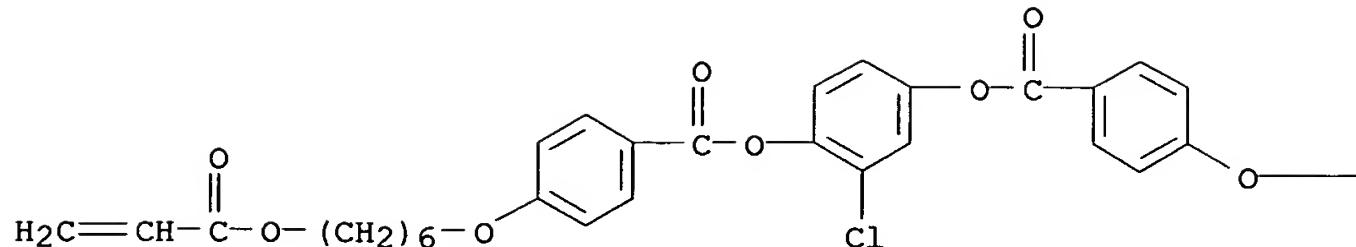
PAGE 1-B



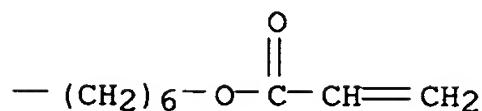
CM 10

CRN 150809-90-8  
CMF C38 H41 Cl O10

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PAGE 1-B



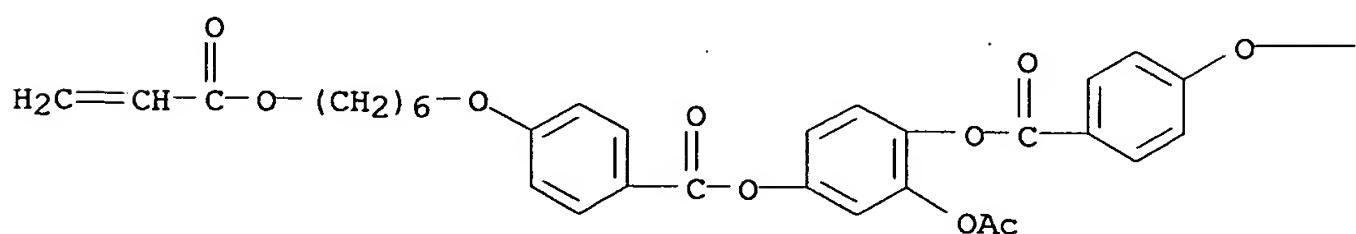
RN 172931-27-0 CAPLUS

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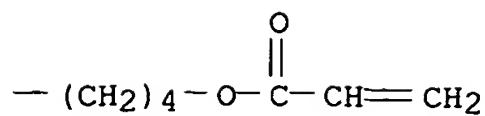
CM 1

CRN 172258-05-8  
CMF C38 H40 O12

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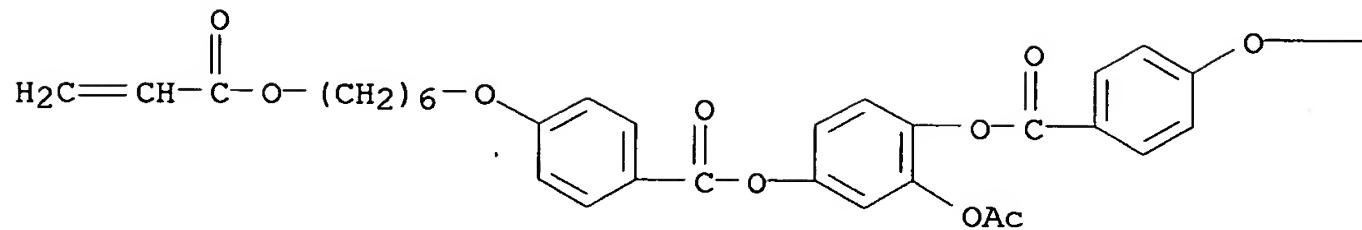
PAGE 1-B



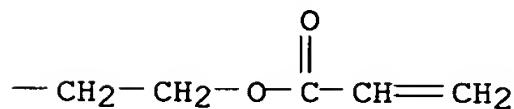
CM 2

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CMF C36 H36 O12

PAGE 1-A



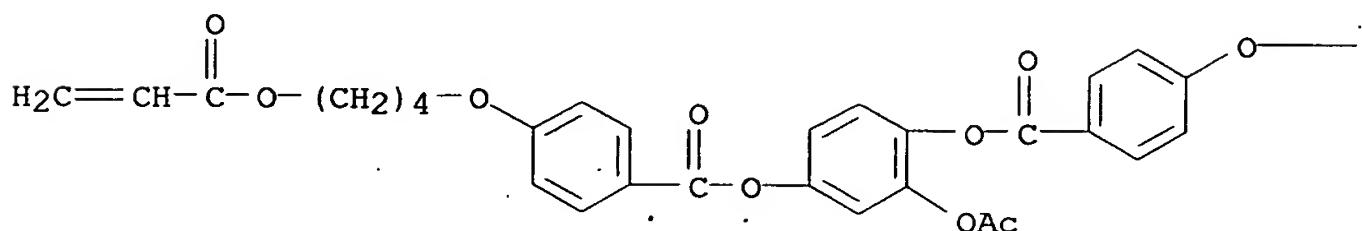
PAGE 1-B



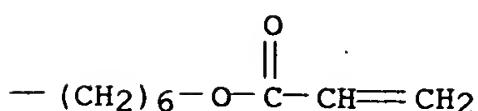
CM 3

CRN 172258-03-6  
CMF C38 H40 O12

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CM 4

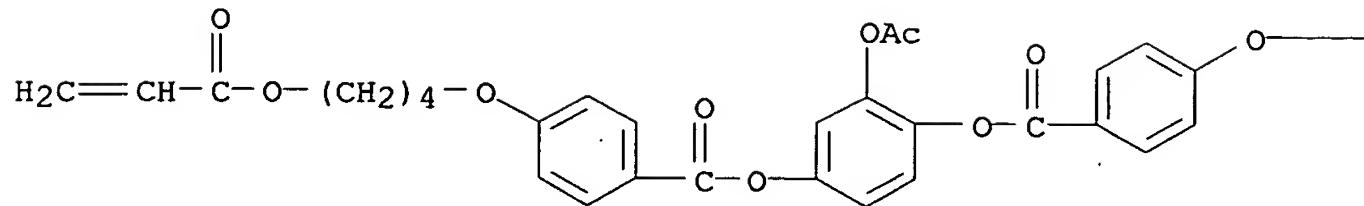
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CMF C34 H32 O12

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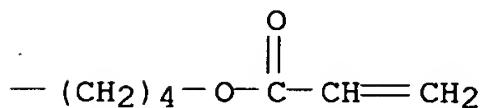
CM 5

CRN 172258-01-4  
CMF C36 H36 O12

PAGE 1-A



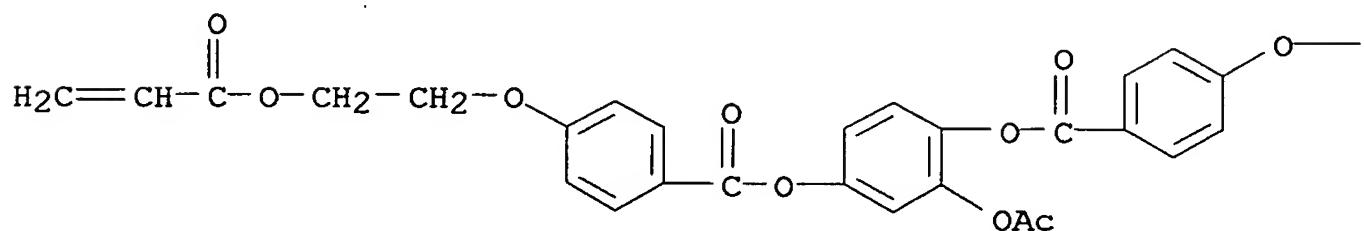
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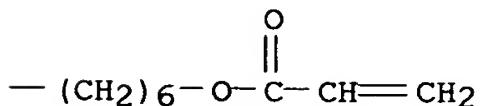
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CMF C36 H36 O12

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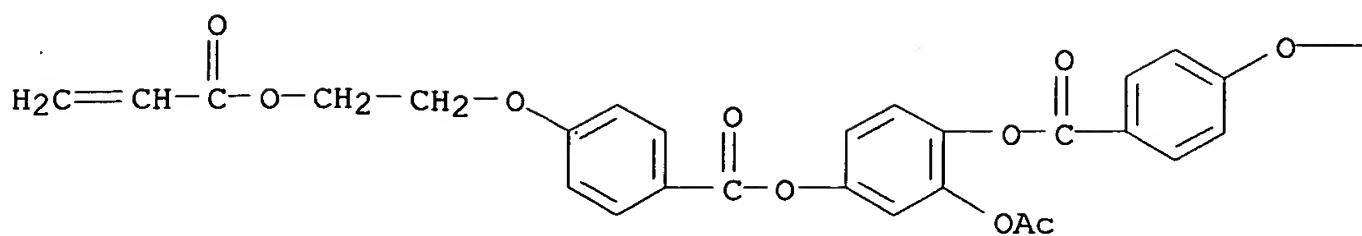
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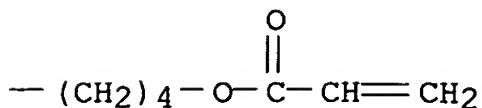
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CMF C34 H32 O12

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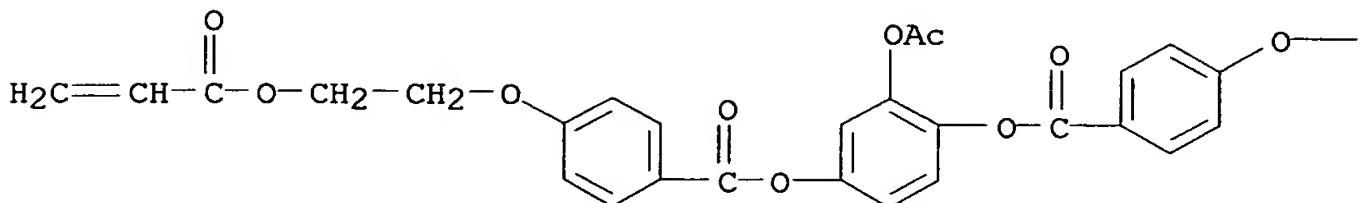


CM 8

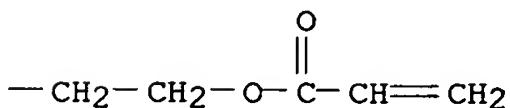
CRN 172257-98-6

CMF C32 H28 O12

PAGE 1-A



PAGE 1-B



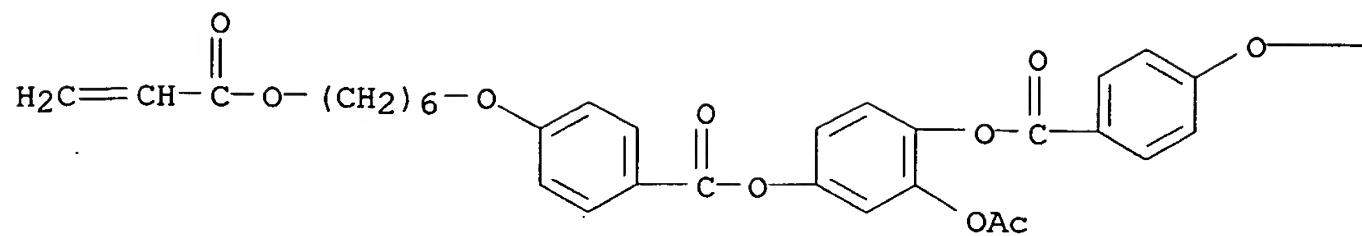
RN 172931-28-1 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], mixt. with 2-(acetyloxy)-4-[[4-[(2-[(1-oxo-2-propenyl)oxy]ethoxy)benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-(acetyloxy)-4-[[4-[(2-[(1-oxo-2-propenyl)oxy]ethoxy)benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate and 2-(acetyloxy)-1,4-phenylene bis[4-[(2-[(1-oxo-2-propenyl)oxy]ethoxy)benzoate] (9CI) (CA INDEX NAME)

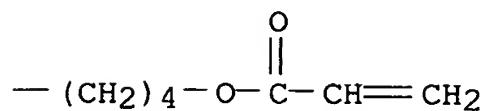
CM 1

CRN 172258-05-8  
CMF C38 H40 O12

PAGE 1-A



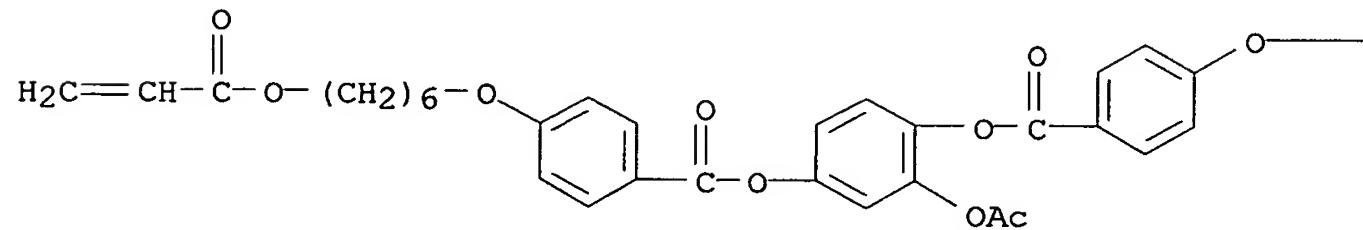
PAGE 1-B



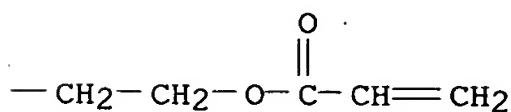
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CRN 172258-04-7  
CMF C36 H36 O12

PAGE 1-A



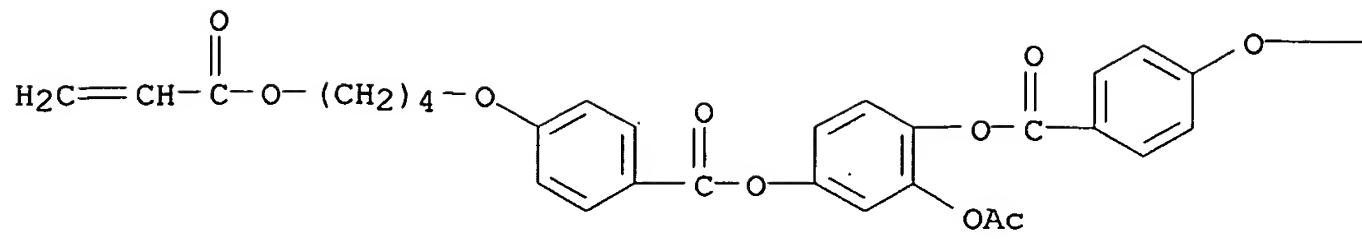
PAGE 1-B



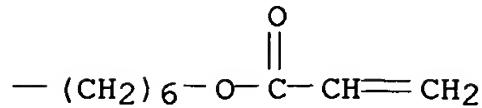
CM 3

CRN 172258-03-6  
CMF C38 H40 O12

PAGE 1-A



PAGE 1-B



CM 4

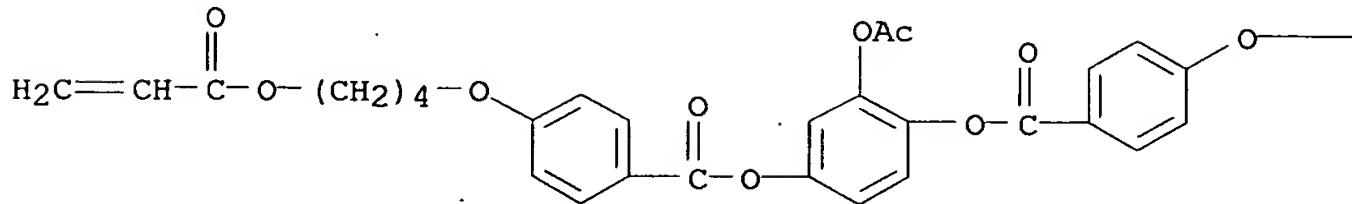
CRN 172258-02-5  
CMF C34 H32 012

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

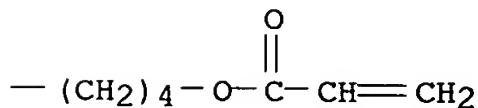
CM 5

CRN 172258-01-4  
CMF C36 H36 012

PAGE 1-A



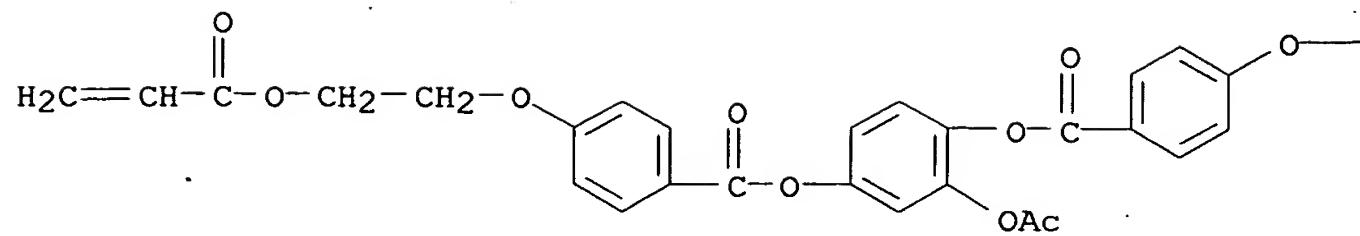
PAGE 1-B



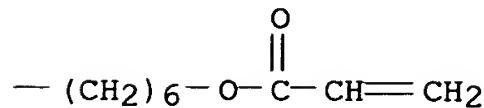
CM 6

CRN 172258-00-3  
CMF C36 H36 012

PAGE 1-A



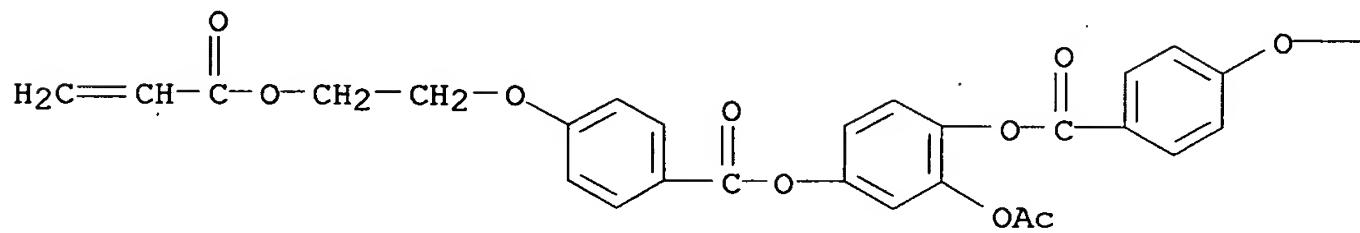
PAGE 1-B



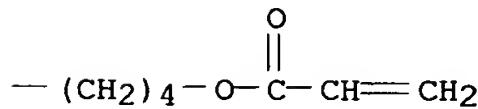
CM 7

CRN 172257-99-7  
CMF C34 H32 O12

PAGE 1-A



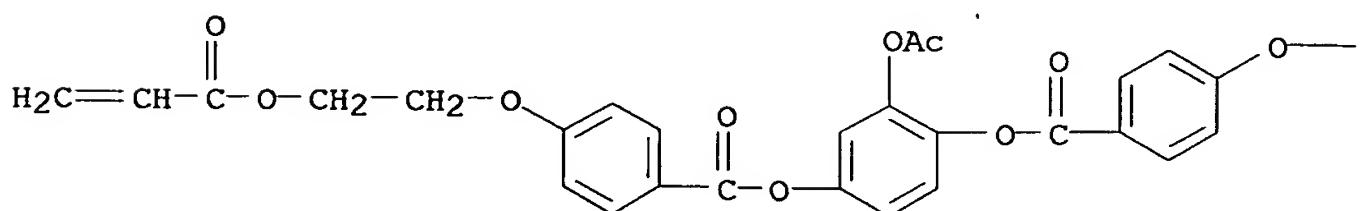
PAGE 1-B



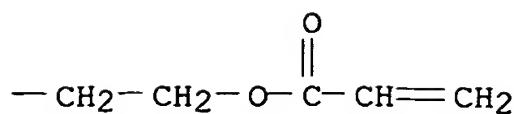
CM 8

CRN 172257-98-6  
CMF C32 H28 O12

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PAGE 1-B

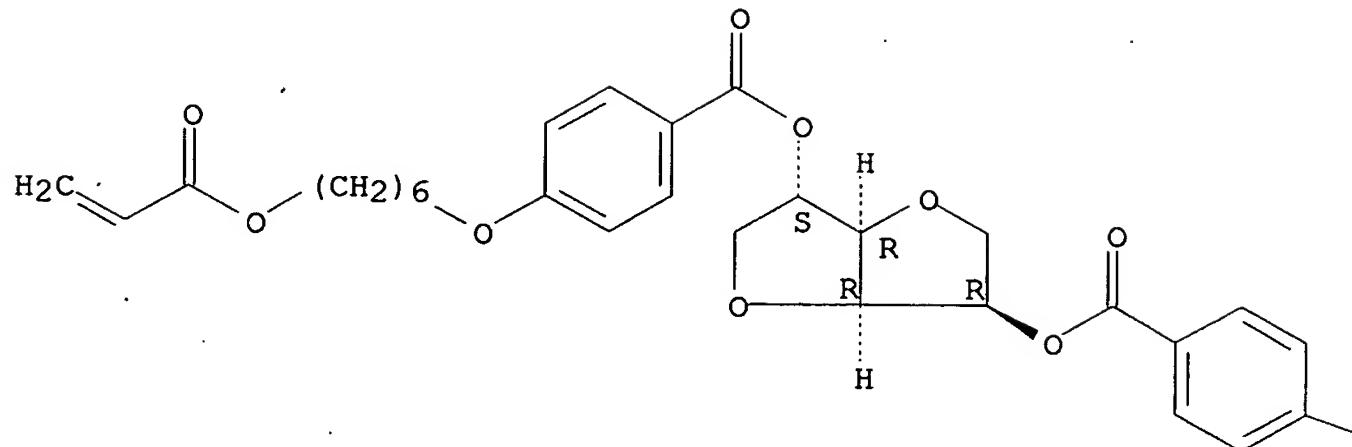


CM 9

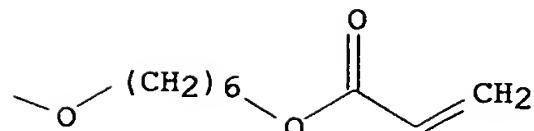
CRN 172257-85-1  
CMF C38 H46 O12

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L11 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1994:335800 CAPLUS  
DOCUMENT NUMBER: 120:335800  
TITLE: Preparation of polymerizable liquid crystal  
compounds and polymer liquid crystals  
INVENTOR(S): Sato, Koichi; Yoshinaga, Kazuo; Toshida, Yoshi;  
Eguchi, Gakuo  
PATENT ASSIGNEE(S): Canon Kk, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.  
CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

1

## PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE       | APPLICATION NO. | DATE         |
|------------------------|--------|------------|-----------------|--------------|
| JP 06016616            | A      | 19940125   | JP 1992-198991  | 19920703 <-- |
| JP 3228348             | B2     | 20011112   |                 |              |
| PRIORITY APPLN. INFO.: |        |            | JP 1992-198991  | 19920703     |
| OTHER SOURCE(S):       | MARPAT | 120:335800 |                 |              |
| GI                     |        |            |                 |              |

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. (I; R1 = H, alkyl, halo; U, V, W, X, Y = single bond, O, O2C, CO2; a = 0,1; b,f = 0-15; s,d,e = 0-2) and (nematic) polymer liquid crystal compds. having I polymerization compns. are prepared A liquid crystal device

uses a liquid crystal composition containing above polymer liquid crystal compds. Liquid

crystal I copolymers shows excellent film property and suitable for a large area display device with good response speed. Thus, p-(6-acryloyloxyhexyloxy)benzoic acid was refluxed with SOCl2 in PhMe and reacted with 2,3-dicyano-p-hydroquinone in pyridine-THF to give a title compound (II). II was copolymerd. with an acrylic acid ester (III) in the presence of azobis(isobutyronitrile) in DMF at 50° for 40 h to give a polymer liquid crystal which showed nematic to isotropic phase transition at 118°.

IT 155502-61-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(liquid crystal composition, preparation of)

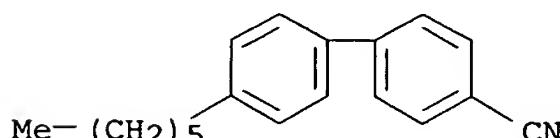
RN 155502-61-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3-dicyano-1,4-phenylene ester, polymer with 5-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]pentyl 2-propenoate, mixt. with 4'-hexyl[1,1'-biphenyl]-4-carbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 41122-70-7

CMF C19 H21 N



CM 2

CRN 155502-60-6

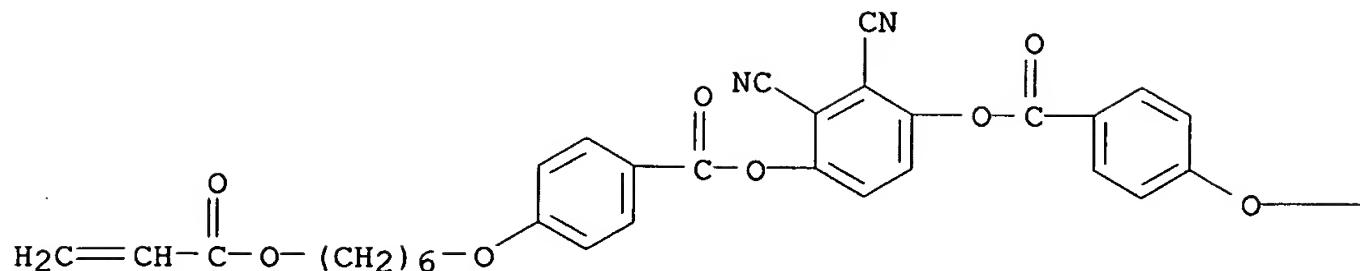
CMF (C40 H40 N2 O10 . C21 H21 N O3)x

CCI PMS

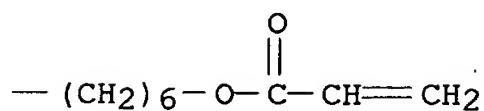
CM 3

CRN 150809-91-9  
CMF C40 H40 N2 O10

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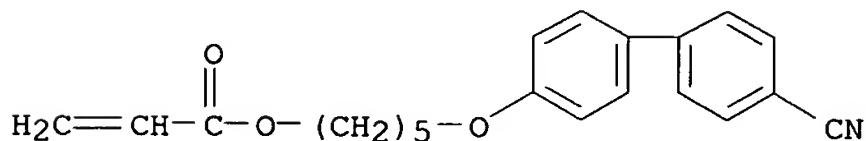


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CM 4

CRN 78475-02-2  
CMF C21 H21 N 03



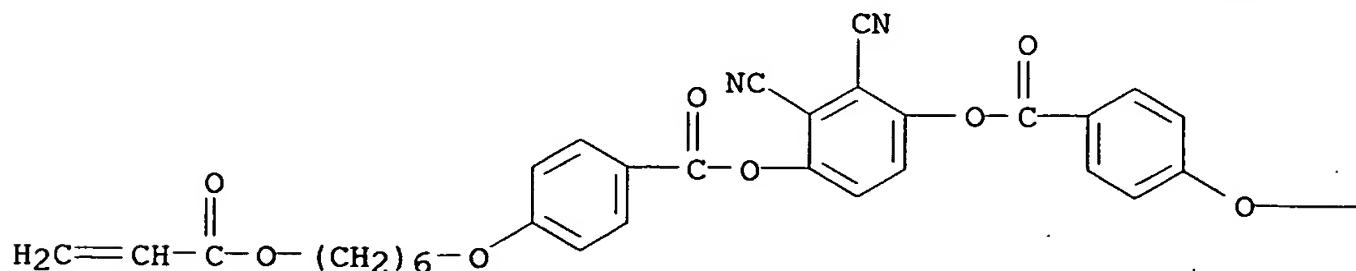
IT 150809-91-9P

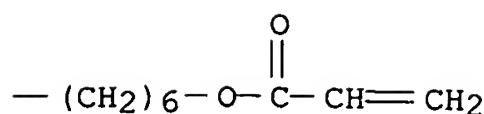
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and copolymer. of, with acrylic acid ester)

RN 150809-91-9 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,  
2,3-dicyano-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A





IT 155502-60-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as polymer liquid crystal)

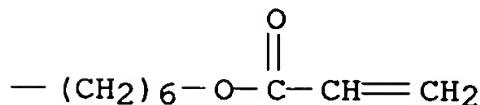
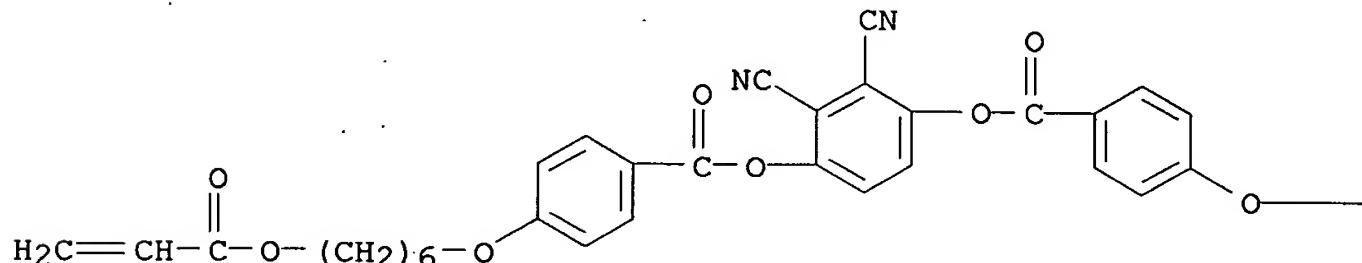
RN 155502-60-6 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,  
2,3-dicyano-1,4-phenylene ester, polymer with 5-[(4'-cyano[1,1'-biphenyl]-  
4-yl)oxy]pentyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 150809-91-9

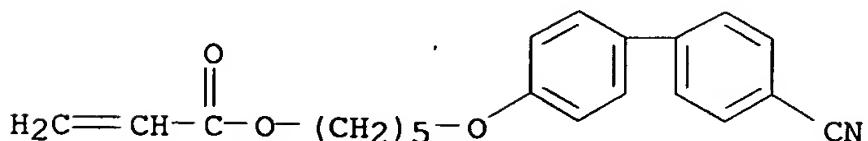
CMF C40 H40 N2 O10



CM 2

CRN 78475-02-2

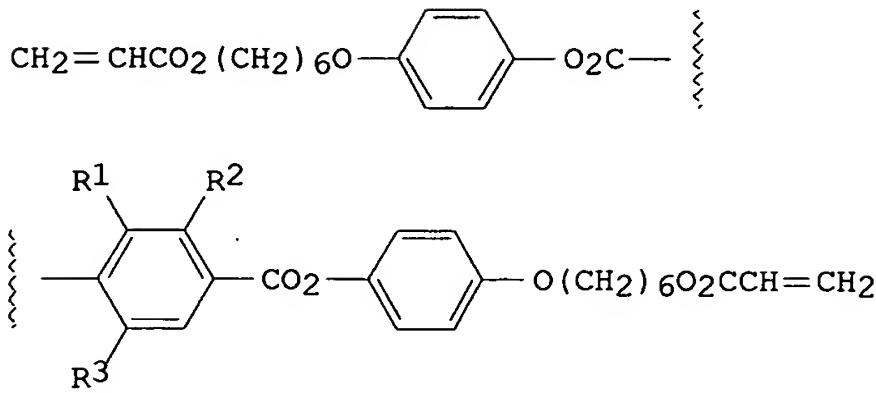
CMF C21 H21 N O3



L11 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1993:671752 CAPLUS  
 DOCUMENT NUMBER: 119:271752  
 TITLE: In situ photopolymerized, oriented liquid-crystalline

AUTHOR(S): diacrylates with high thermal conductivities  
CORPORATE SOURCE: Geibel, Kurt; Hammerschmidt, Albert; Strohmer, Franz  
Siemens AG, Erlangen, W-8520, Germany  
SOURCE: Advanced Materials (Weinheim, Germany) (1993)  
, 5(2), 107-9  
CODEN: ADVMEW; ISSN: 0935-9648

DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



AB In a series of liquid-crystalline monomers having the structure I, where R1 = H or Me, R2 = H, Me, MeO, Cl or MeCO and R3 = H or Me, lateral groups generally reduced phase transition temps. by steric effects, decreasing the van der Waals forces between rodlike mesogenic units. The electronic character of the groups affected the stability and width of the temperature range of the nematic phase. The I (R1 and R3 = H, R2 = Cl) showed a narrow nematic temperature range, whereas I (R1 and R3 = H, R2 = MeO) and I

(II;  
R1 and R3 = H, R2 = MeCO) with substituents enlarging the  $\pi$ -system of the mesogen unit had a wider nematic temperature range. Thin ordered polymer films were prepared by spin-coating solns. of I (III; R1 = R2 = R3 = H) and II onto uniformly rubbed polyimide coatings on Si wafers, drying at a temperature in the range of the nematic phase of the liquid crystal to remove the solvent, and crosslinking the monomer layers by irradiation under N with a Hg high-pressure lamp. The thermal conductivity for III and II parallel to the direction of order was higher by a factor of 13 and 20, resp., than the value perpendicular to the direction of order. The increase of the thermal conductivity parallel to the orientation could be correlated with the degree of order, whereas the thermal conductivity perpendicular to the orientation was of the same size as the isotropic material.

IT 123864-17-5 125248-71-7 150809-90-8

151517-51-0 151518-94-4 151518-95-5

151518-96-6

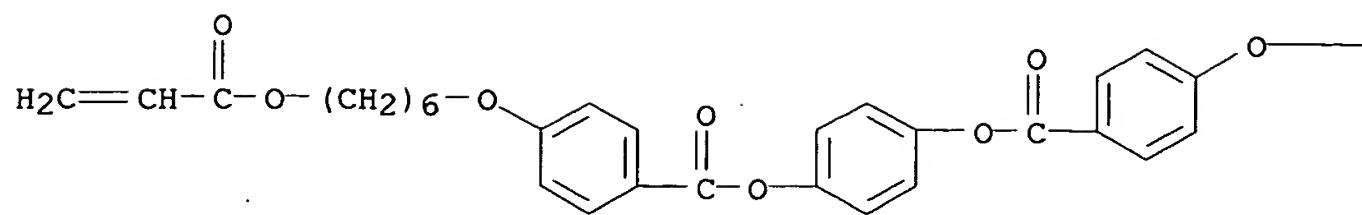
RL: USES (Uses)

(liquid crystalline, phase transition temps. and heat and entropy of transition of)

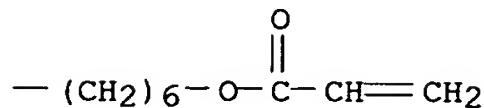
RN 123864-17-5 CAPLUS

CN Benzoic acid, 4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



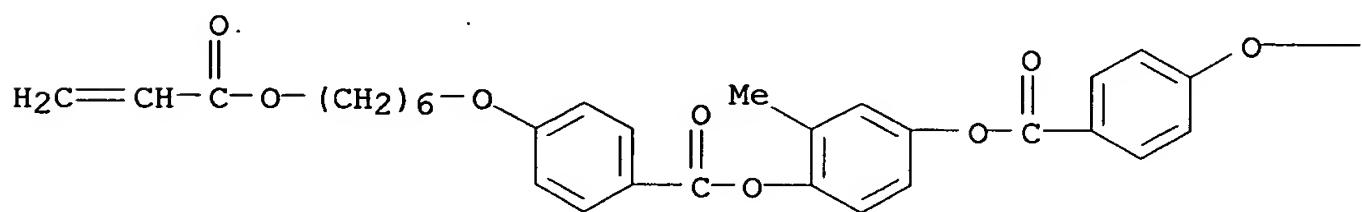
PAGE 1-B



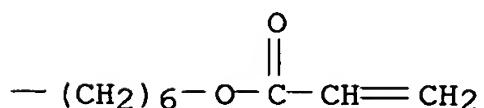
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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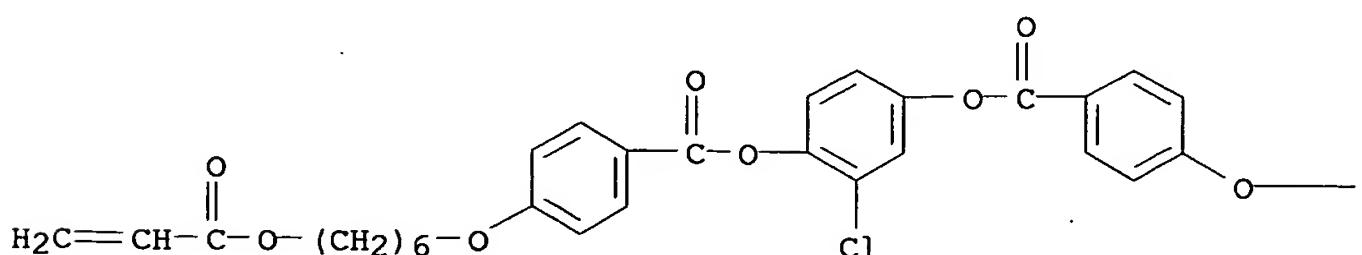
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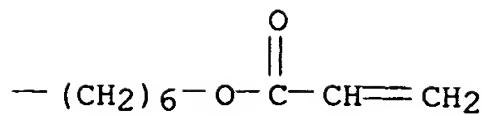
RN 150809-90-8 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



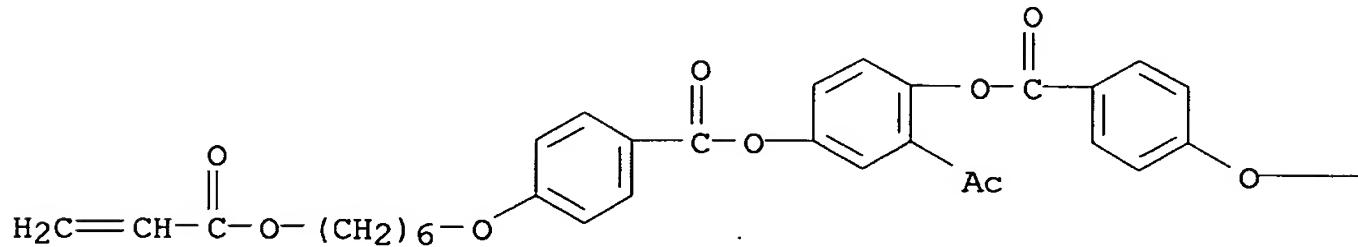
PAGE 1-B



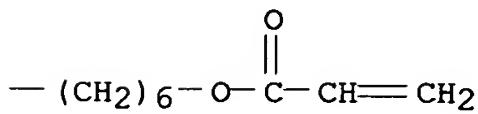
RN 151517-51-0 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-acetyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



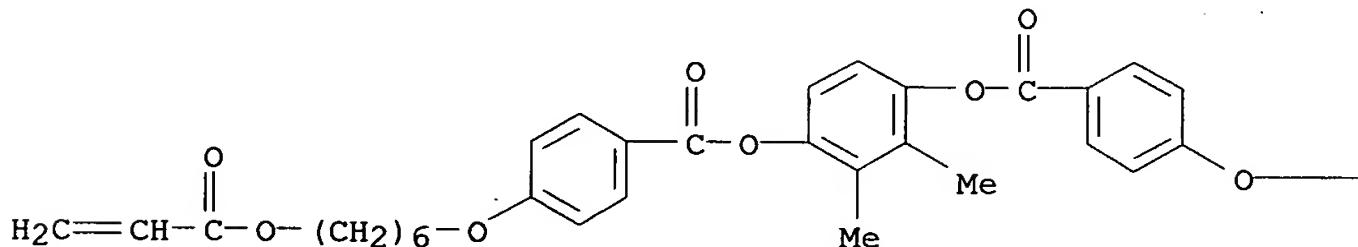
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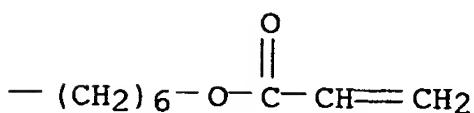
RN 151518-94-4 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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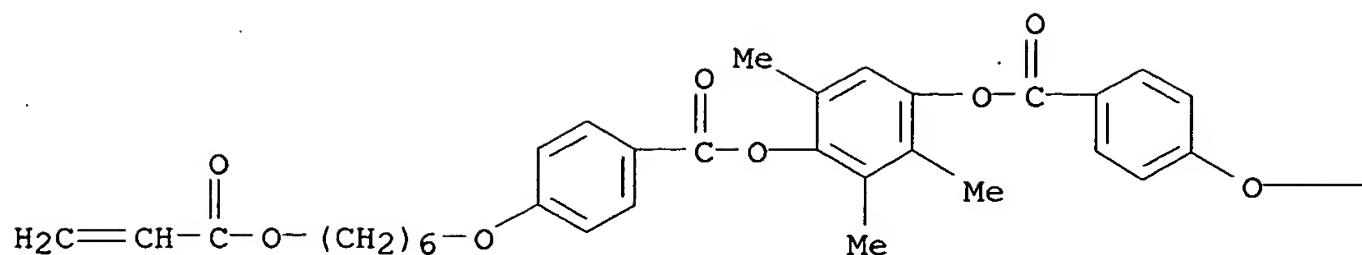
PAGE 1-B



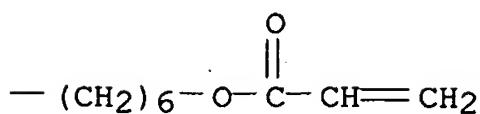
RN 151518-95-5 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3,5-trimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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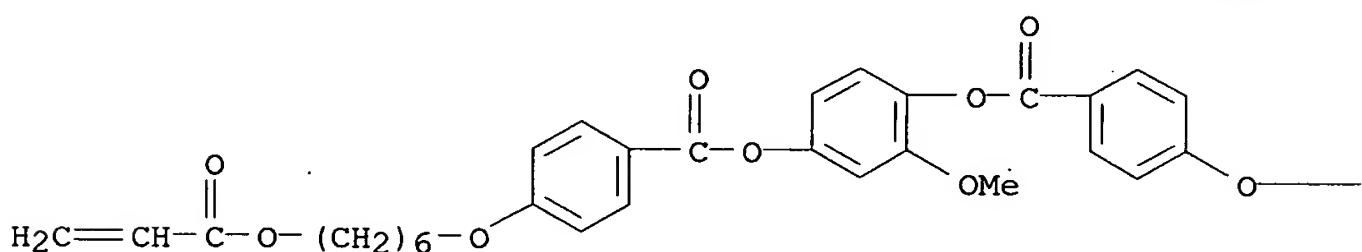
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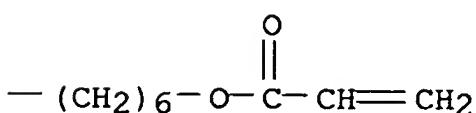
RN 151518-96-6 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methoxy-1,4-phenylene ester (9CI) (CA INDEX NAME)

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IT 123864-18-6P 151517-52-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(liquid crystalline, preparation and thermal properties of thin films of)

RN 123864-18-6 CAPLUS

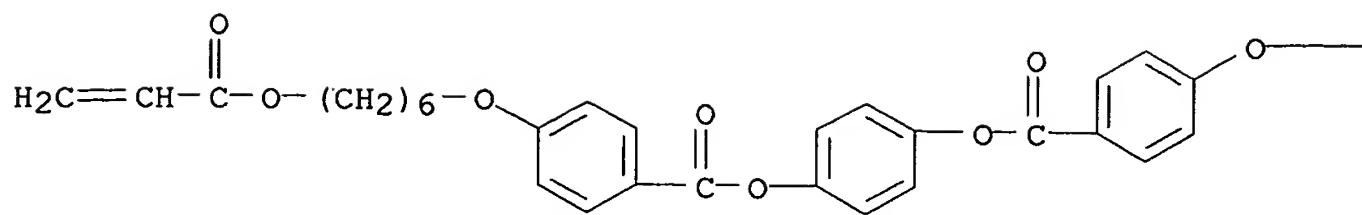
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

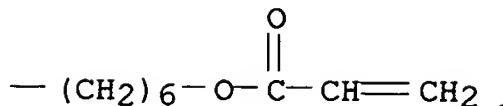
CRN 123864-17-5

CMF C38 H42 O10

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PAGE 1-B



RN 151517-52-1 CAPLUS

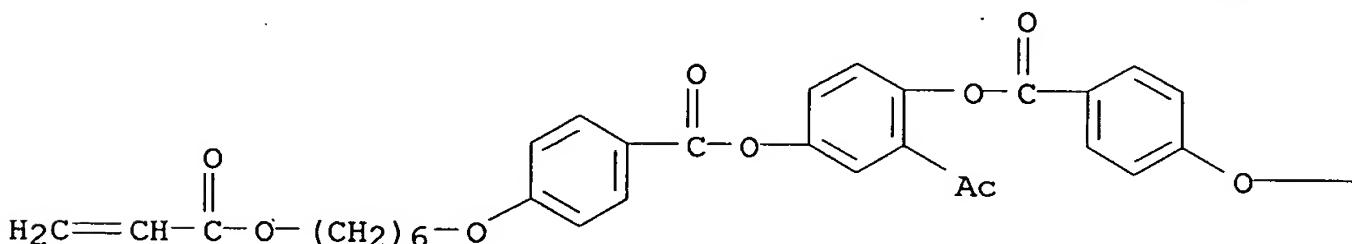
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-acetyl-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

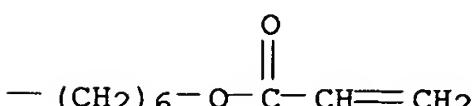
CRN 151517-51-0

CMF C40 H44 O11

PAGE 1-A



PAGE 1-B



L11 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:144125 CAPLUS

DOCUMENT NUMBER: 114:144125

TITLE: In-situ photopolymerization of oriented liquid-crystalline acrylates. 5. Influence of the alkylene spacer on the properties of the mesogenic monomers and the formation and properties of oriented polymer networks

AUTHOR(S): Broer, Dirk J.; Mol, Grietje N.; Challa, Ger Philips Res. Lab., Eindhoven, 5600 JA, Neth.

CORPORATE SOURCE: Makromolekulare Chemie (1991), 192(1), 59-74

SOURCE: CODEN: MACEAK; ISSN: 0025-116X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The photoinitiated bulk polymerization of macroscopically oriented liquid-crystalline

1,4-phenylene bis[4-( $\omega$ - acryloyloxyalkyloxy)benzoates] produces densely crosslinked oriented polymer networks. The influence of the length of the alkylene spacer (C4-11) between the aromatic central core and the polymerizable acrylate end groups on the mesomorphic behavior of the monomer, the mol. orientation in the monomeric and polymeric state, and the process of photoinitiated polymerization in the ordered state is studied. Some optical properties of the oriented networks are presented.

IT 132900-74-4 132900-75-5 132900-76-6

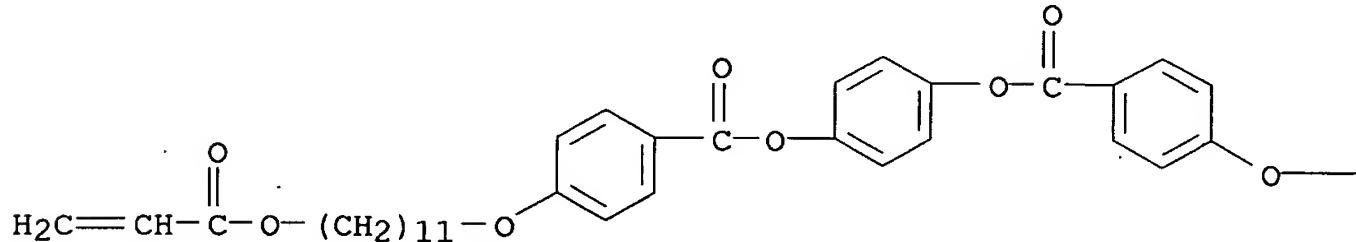
RL: PRP (Properties)

(enthalpy and entropy of transition of, photopolymn. in relation to)

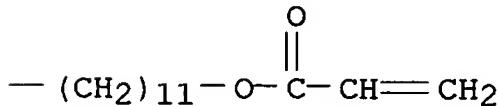
RN 132900-74-4 CAPLUS

CN Benzoic acid, 4-[11-[(1-oxo-2-propenyl)oxy]undecyl]oxy-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



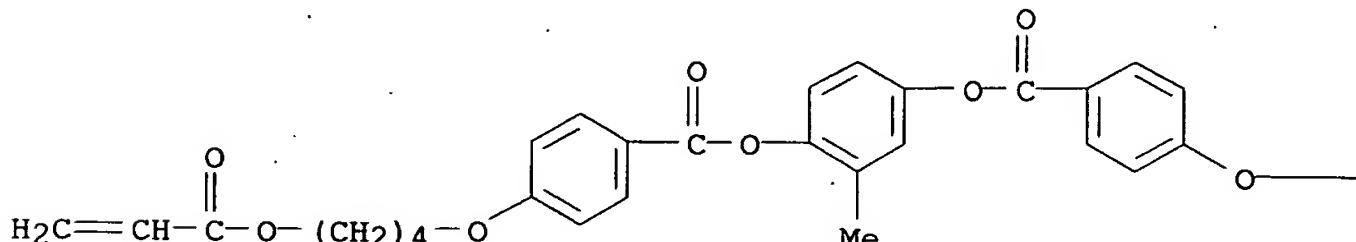
PAGE 1-B

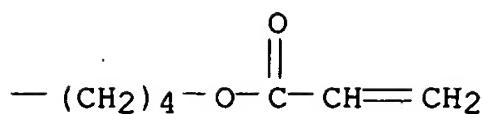


RN 132900-75-5 CAPLUS

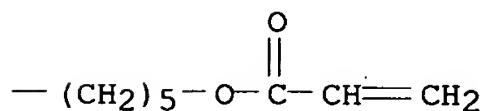
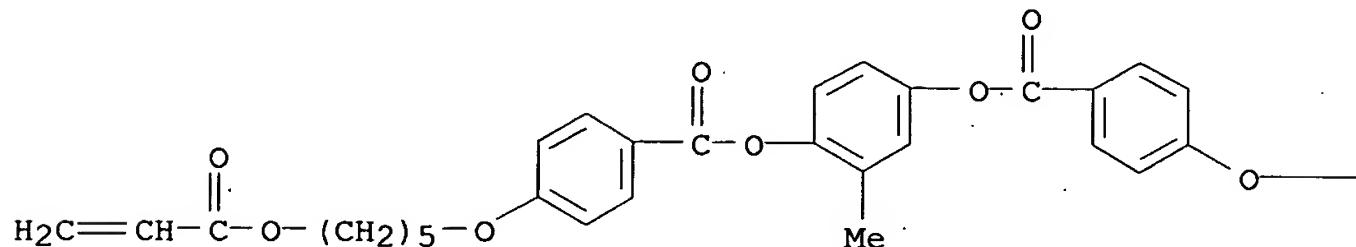
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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RN 132900-76-6 CAPLUS

CN Benzoic acid, 4-[ [5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-,  
2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

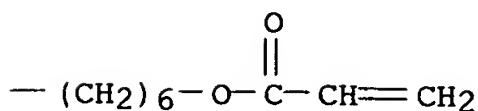
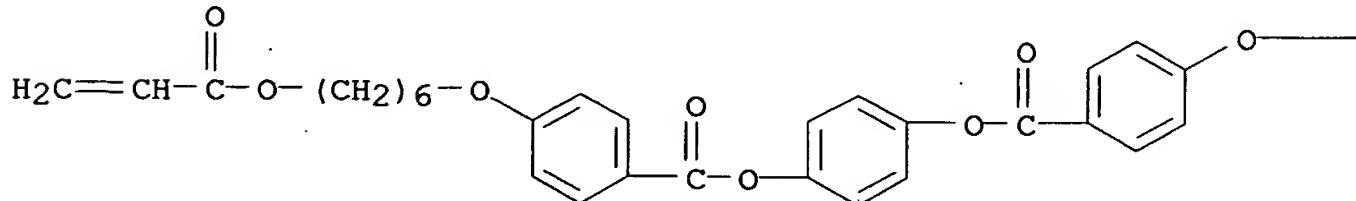
IT 123864-17-5 125240-26-8 125248-71-7

132694-65-6 132694-67-8 132694-69-0

RL: RCT (Reactant); RACT (Reactant or reagent)

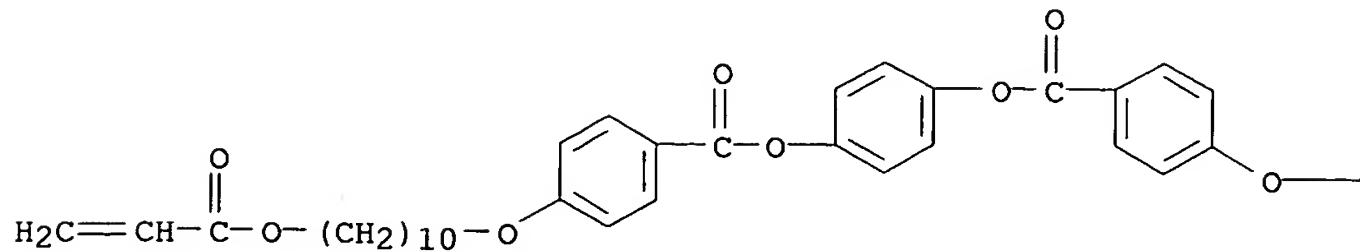
(mesormorphism and photopolymn. of, orientation in relation to)

RN 123864-17-5 CAPLUS

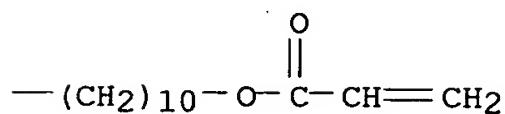
CN Benzoic acid, 4-[ [6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene  
ester (9CI) (CA INDEX NAME)

RN 125240-26-8 CAPLUS  
CN Benzoic acid, 4-[[10-[(1-oxo-2-propenyl)oxy]decyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

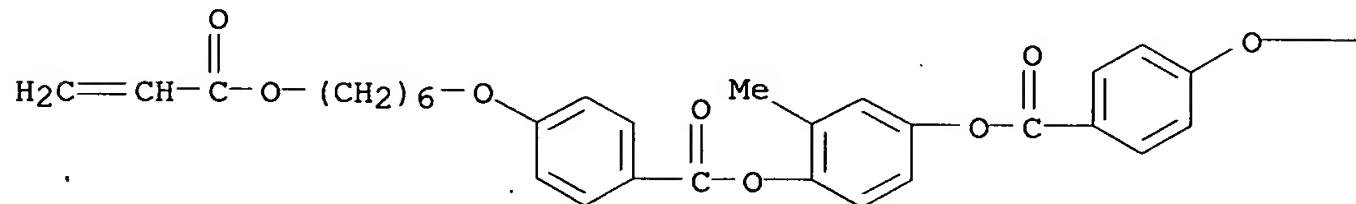


PAGE 1-B

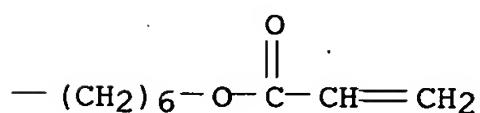


RN 125248-71-7 CAPLUS  
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

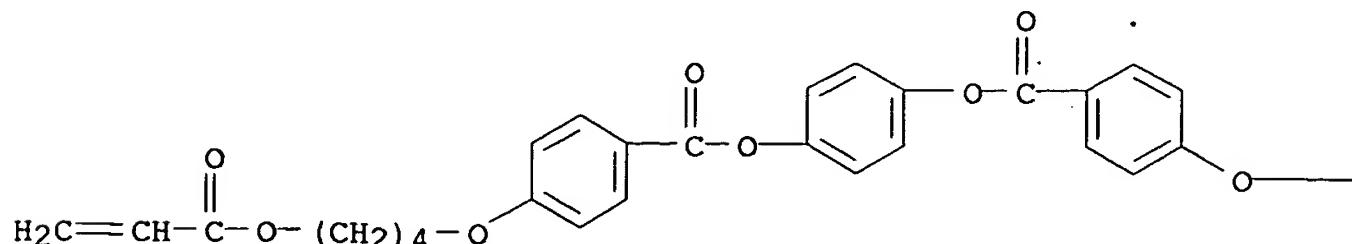


PAGE 1-B

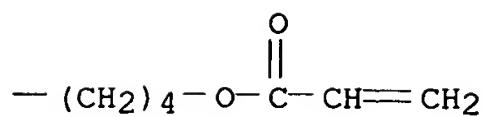


RN 132694-65-6 CAPLUS  
CN Benzoic acid, 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

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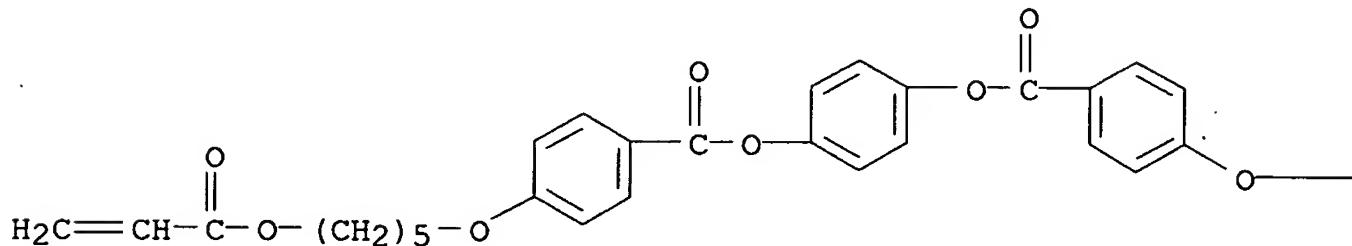
PAGE 1-B



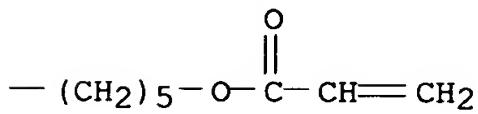
RN 132694-67-8 CAPLUS

CN Benzoic acid, 4-[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

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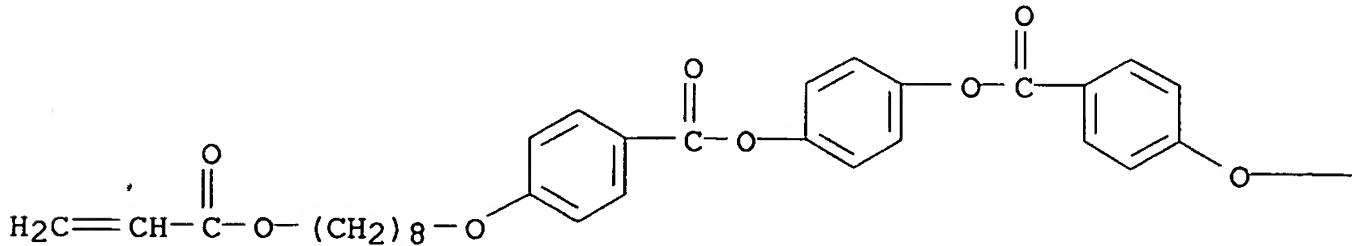
PAGE 1-B



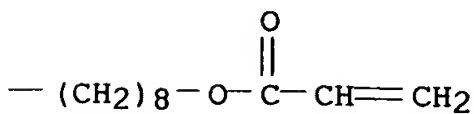
RN 132694-69-0 CAPLUS

CN Benzoic acid, 4-[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

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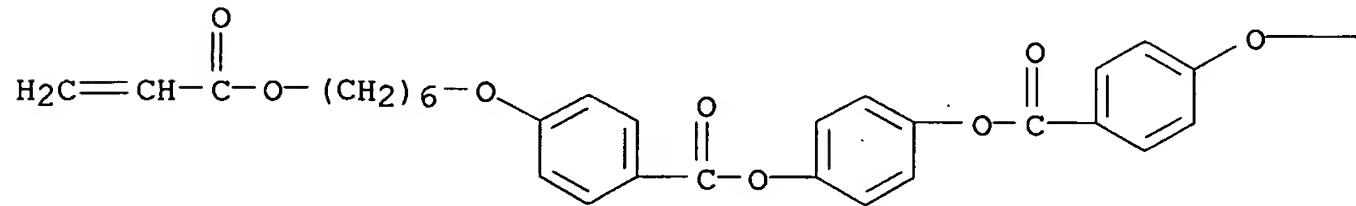
IT 123864-18-6P 125248-72-8P 132694-66-7P  
132694-68-9P 132694-70-3P 132694-71-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and order parameters and optical properties of oriented)  
RN 123864-18-6 CAPLUS  
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 123864-17-5  
CMF C38 H42 O10

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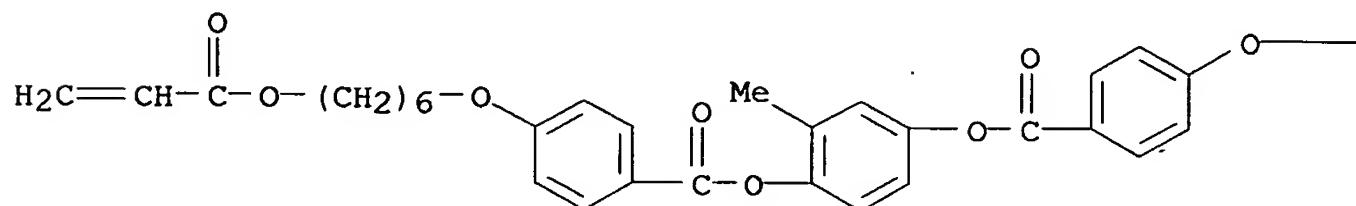
— (CH<sub>2</sub>)<sub>6</sub>—O—C— $\overset{\text{O}}{\parallel}$ —CH=CH<sub>2</sub>

RN 125248-72-8 CAPLUS  
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 125248-71-7  
CMF C39 H44 O10

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— (CH<sub>2</sub>)<sub>6</sub>—O—C— $\overset{\text{O}}{\parallel}$ —CH=CH<sub>2</sub>

RN 132694-66-7 CAPLUS  
CN Benzoic acid, 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 1,4-phenylene ester,

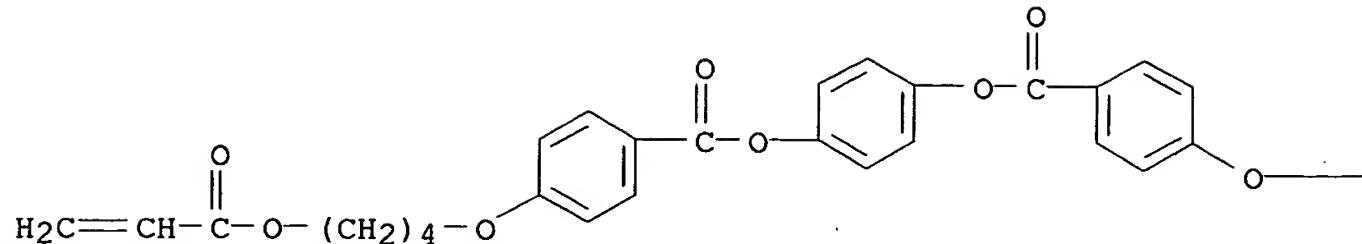
homopolymer (9CI) (CA INDEX NAME)

CM 1

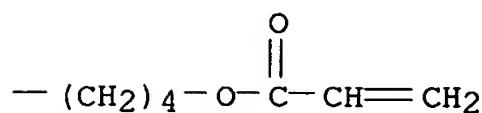
CRN 132694-65-6

CMF C34 H34 O10

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RN 132694-68-9 CAPLUS

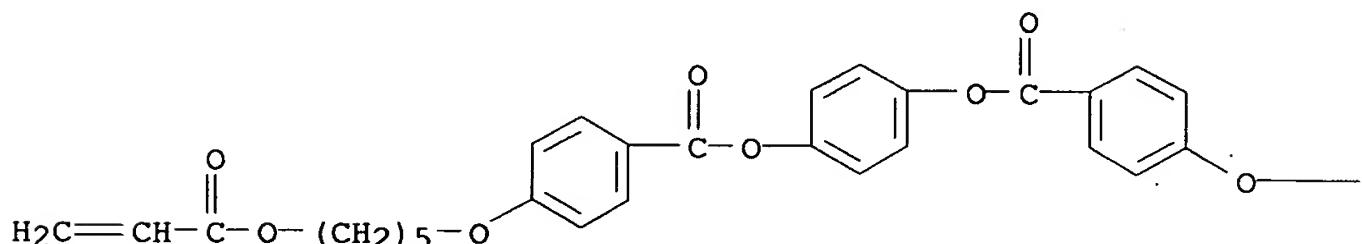
CN Benzoic acid, 4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

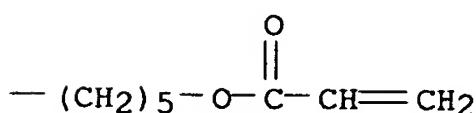
CRN 132694-67-8

CMF C36 H38 O10

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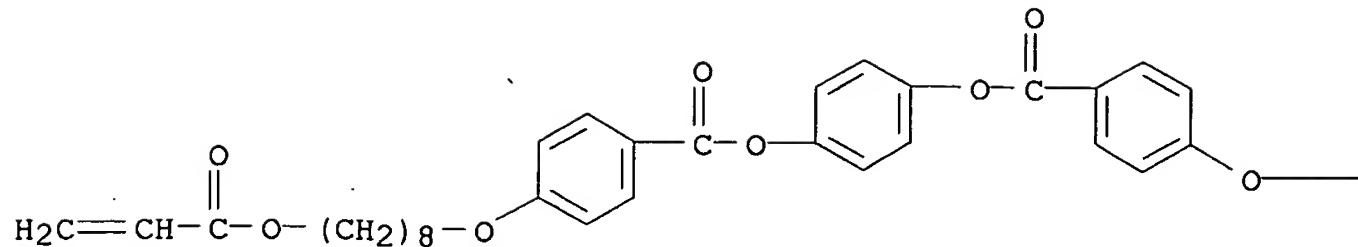
RN 132694-70-3 CAPLUS

CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

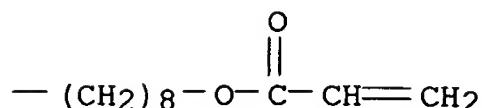
CM 1

CRN 132694-69-0  
CMF C42 H50 O10

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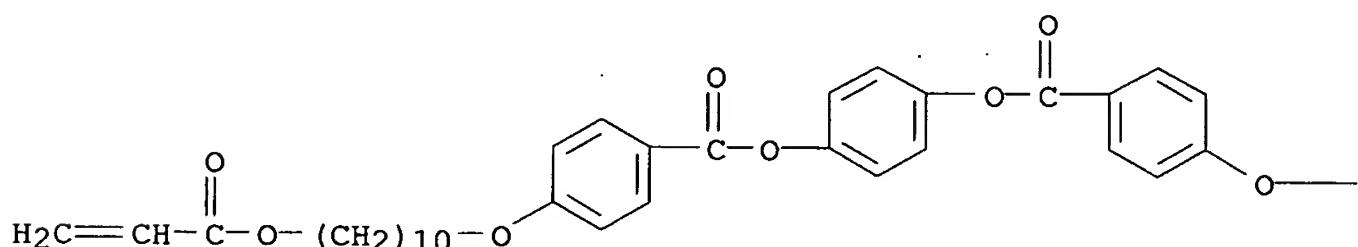
RN 132694-71-4 CAPLUS

CN Benzoic acid, 4-[10-[(1-oxo-2-propenyl)oxy]decyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

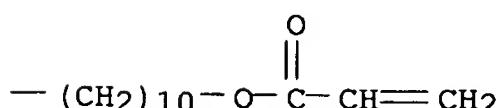
CM 1

CRN 125240-26-8  
CMF C46 H58 O10

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PAGE 1-B



L11 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:574729 CAPLUS

DOCUMENT NUMBER: 111:174729

TITLE: Thermotropic poly(ester- $\beta$ -sulfides). A new polymer series containing the p-phenylene

AUTHOR(S): di(p-oxybenzoate) unit  
Galli, Giancarlo; Chiellini, Emo; Laus, Michele;  
Angeloni, Annino S.

CORPORATE SOURCE: Dip. Chim. Chim. Ind., Univ. Pisa, Pisa, I-56100,  
Italy

SOURCE: Polymer Bulletin (Berlin, Germany) (1989),  
21(6), 563-9

CODEN: POBUDR; ISSN: 0170-0839

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A new series of thermotropic liquid-crystalline poly(ester-β-sulfides) (HQH)<sub>n</sub> was prepared which contained the p-phenylene di(p-oxybenzoate) (HQH) unit. The thermodn. parameters of the nematic-isotropic melt phase transition were analyzed in terms of the number n of methylene groups in the sulfide spacer segment (n = 2 to 10). The flexible segment behaved principally as a diluent of the mesogen, in contrast with previously studied poly(ester-β-sulfides) containing different mesogenic groups.

IT 123349-63-3P 123349-64-4P 123349-65-5P  
123349-66-6P 123349-67-7P 123349-68-8P  
123349-69-9P 123349-70-2P 123349-71-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(liquid-crystalline, thermotropic, preparation, viscosity and thermal properties  
of)

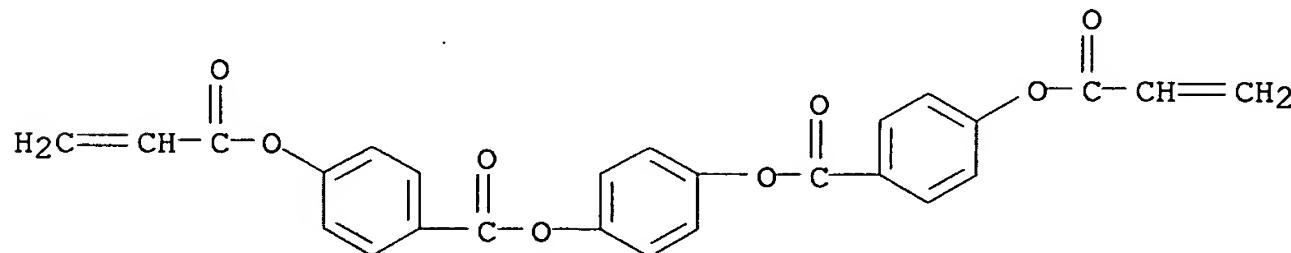
RN 123349-63-3 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer  
with 1,2-ethanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 540-63-6

CMF C2 H6 S2

HS-CH<sub>2</sub>-CH<sub>2</sub>-SH

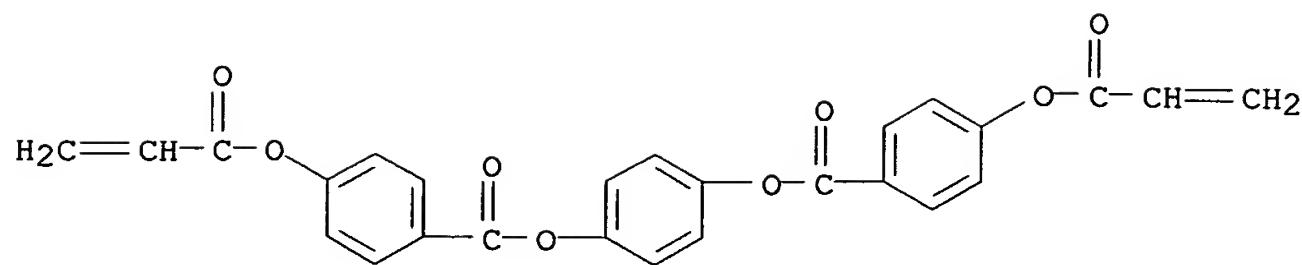
RN 123349-64-4 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer  
with 1,3-propanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 109-80-8

CMF C3 H8 S2

HS-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-SH

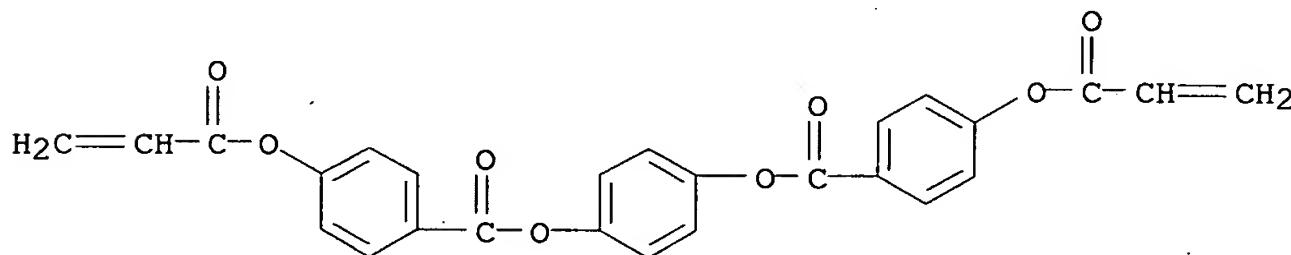
RN 123349-65-5 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,4-butanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-08-8

CMF C4 H10 S2

HS-(CH<sub>2</sub>)<sub>4</sub>-SH

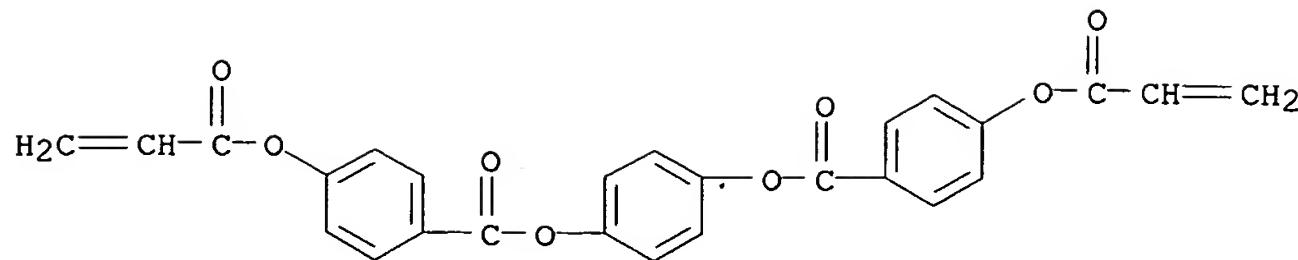
RN 123349-66-6 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,5-pantanediyl (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 928-98-3

CMF C5 H12 S2

HS-(CH<sub>2</sub>)<sub>5</sub>-SH

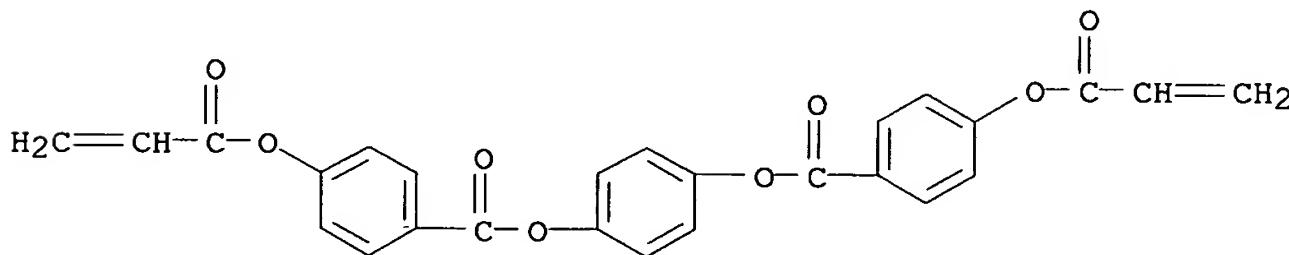
RN 123349-67-7 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,6-hexanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-43-1

CMF C6 H14 S2

HS-(CH<sub>2</sub>)<sub>6</sub>-SH

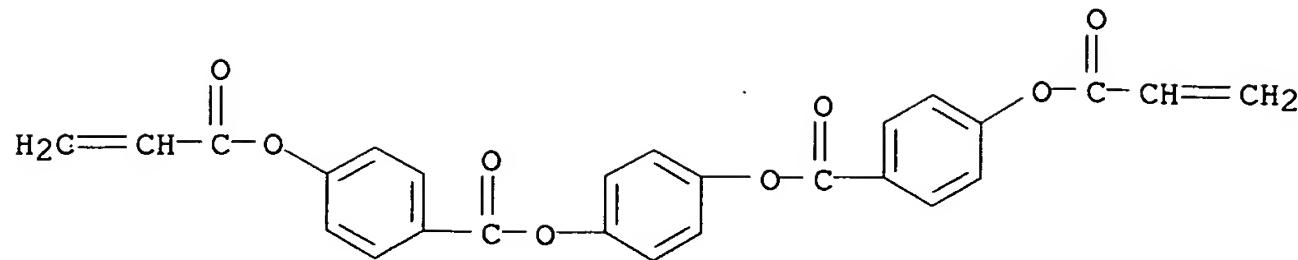
RN 123349-68-8 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,7-heptanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

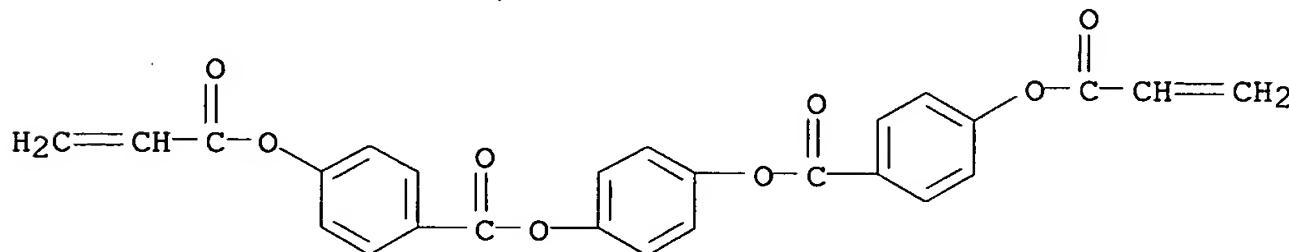
CRN 62224-02-6  
CMF C7 H16 S2

HS- (CH<sub>2</sub>)<sub>7</sub>- SH

RN 123349-69-9 CAPLUS  
CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,8-octanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9  
CMF C26 H18 O8



CM 2

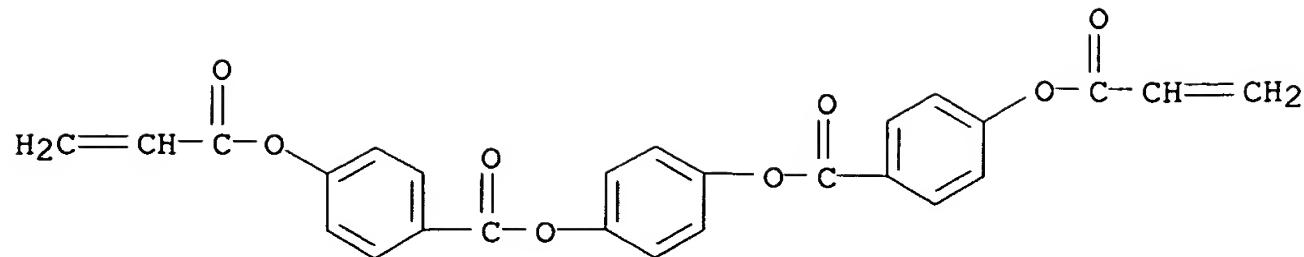
CRN 1191-62-4  
CMF C8 H18 S2

HS- (CH<sub>2</sub>)<sub>8</sub>- SH

RN 123349-70-2 CAPLUS  
CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,9-nonanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9  
CMF C26 H18 O8



CM 2

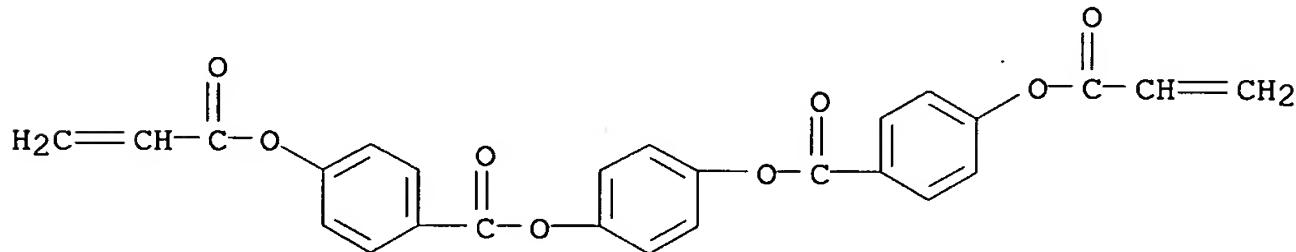
CRN 3489-28-9  
CMF C9 H20 S2

HS—(CH<sub>2</sub>)<sub>9</sub>—SH

RN 123349-71-3 CAPLUS  
CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,10-decanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9  
CMF C26 H18 O8

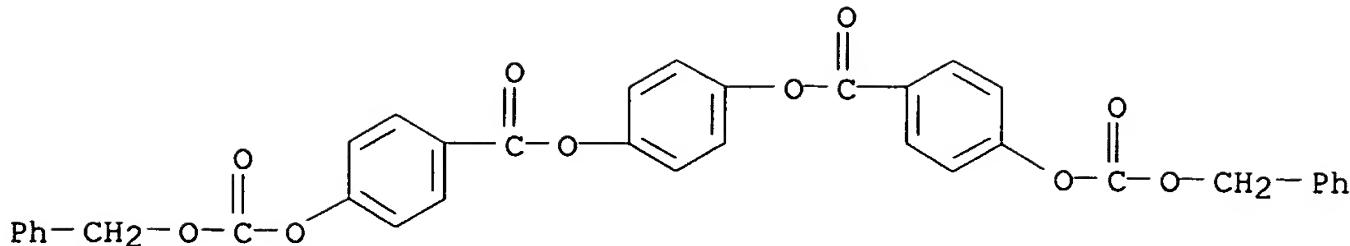


CM 2

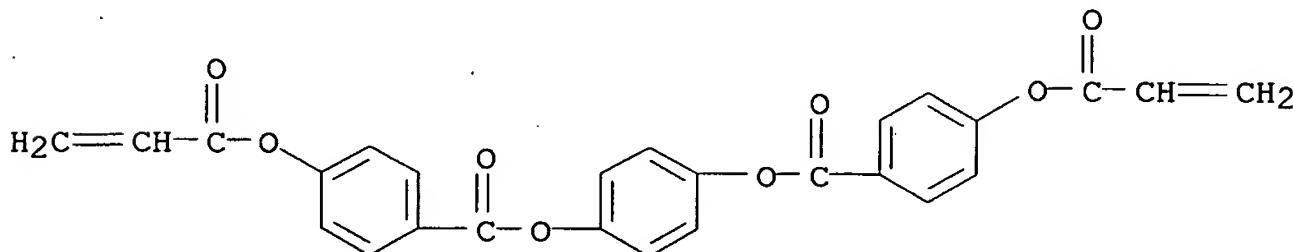
CRN 1191-67-9  
CMF C10 H22 S2

HS—(CH<sub>2</sub>)<sub>10</sub>—SH

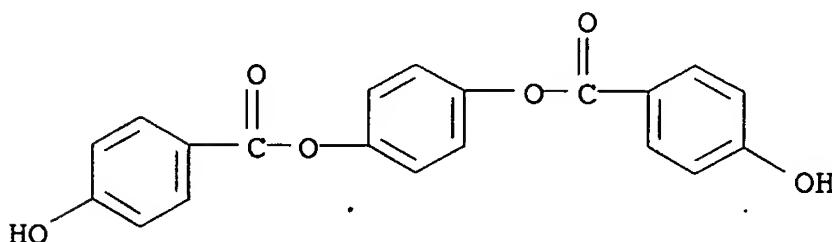
IT 123391-57-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and hydrogenation of)  
RN 123391-57-1 CAPLUS  
CN Benzoic acid, 4-[(phenylmethoxy)carbonyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 91442-58-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and polymerization of, with alkyl dithiols)  
 RN 91442-58-9 CAPLUS  
 CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 53201-62-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with acryloyl chloride)  
 RN 53201-62-0 CAPLUS  
 CN Benzoic acid, 4-hydroxy-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



L11 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1988:205160 CAPLUS  
 DOCUMENT NUMBER: 108:205160  
 TITLE: Synthesis of a new class of side-chain liquid crystal polymers - polymers with mesogens laterally attached via short linkages to polymer backbones  
 AUTHOR(S): Zhou, Qifeng; Li, Huimin; Feng, Xinde  
 CORPORATE SOURCE: Chem. Dep., Peking Univ., Beijing, 100871, Peop. Rep. China  
 SOURCE: Molecular Crystals and Liquid Crystals (1988), 155(Pt. B), 73-82  
 CODEN: MCLCA5; ISSN: 0026-8941  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB 2,5-Bis(4-alkoxybenzoyloxy)benzyl acrylates were synthesized and polymerized to give liquid-crystalline polyacrylates. Above the glass transition temperature, all

the polymers had a stable mesophase as revealed by DSC and a polarizing microscope. The glass transition and the isotropization temps. were .apprx.100° and .apprx.169°, resp., both varying with the size of the alkoxy substituents in the mesogens.

IT 105280-90-8P 114374-52-6P 114374-54-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (liquid-crystalline, preparation and properties of)

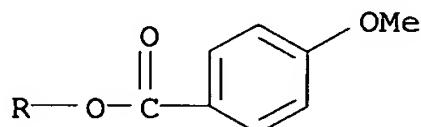
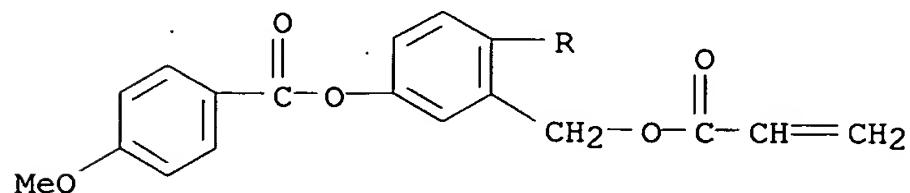
RN 105280-90-8 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4

CMF C26 H22 O8



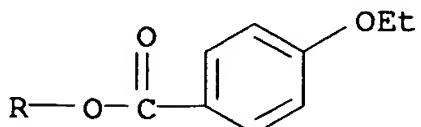
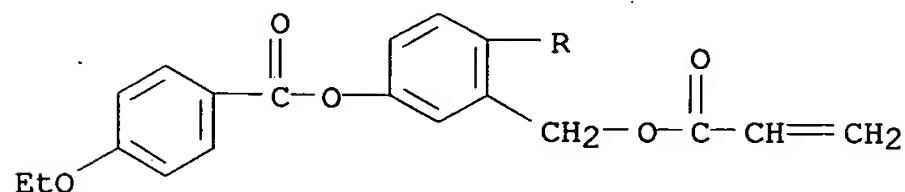
RN 114374-52-6 CAPLUS

CN Benzoic acid, 4-ethoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 114374-51-5

CMF C28 H26 O8

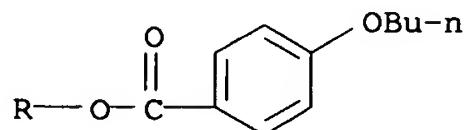
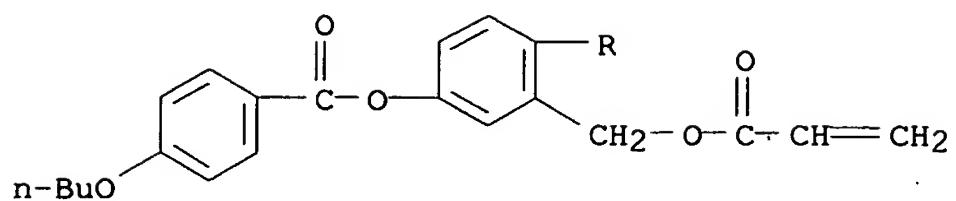


RN 114374-54-8 CAPLUS

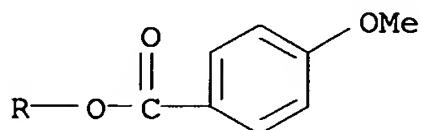
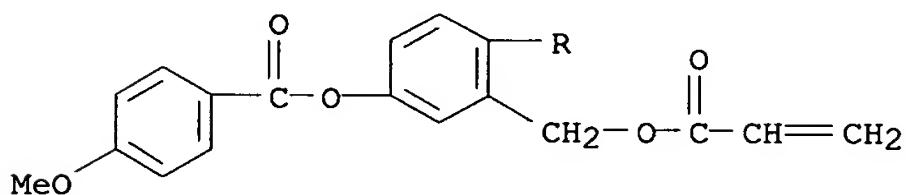
CN Benzoic acid, 4-butoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

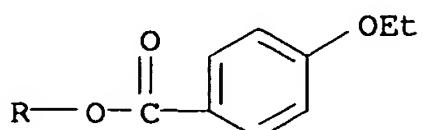
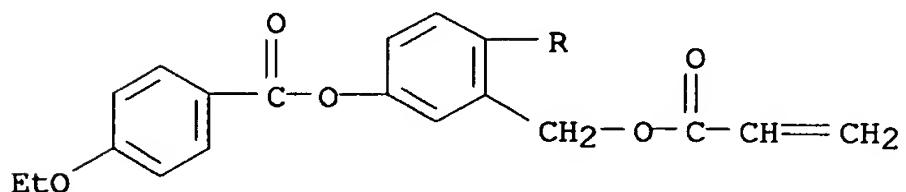
CRN 114374-53-7



IT 105252-92-4P, 2,5-Bis(4-methoxybenzoyloxy)benzyl acrylate  
 114374-51-5P, 2,5-Bis(4-ethoxybenzoyloxy)benzyl acrylate  
 114374-53-7P, 2,5-Bis(4-butoxybenzoyloxy)benzyl acrylate  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and polymerization of)  
 RN 105252-92-4 CAPLUS  
 CN Benzoic acid, 4-methoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)

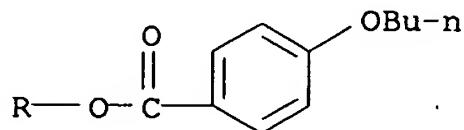
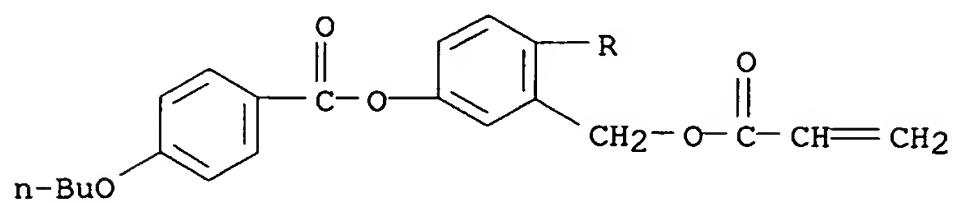


RN 114374-51-5 CAPLUS  
 CN Benzoic acid, 4-ethoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 114374-53-7 CAPLUS

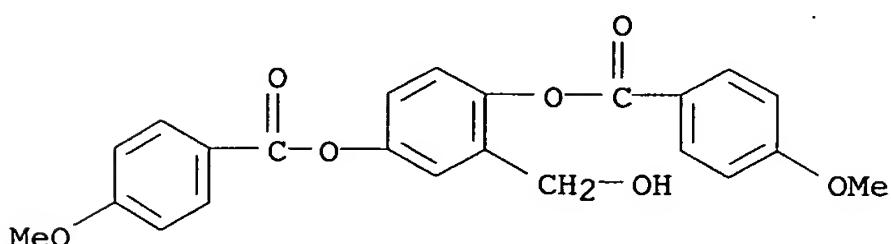
CN Benzoic acid, 4-butoxy-, 2-[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 105252-91-3P, 2,5-Bis(4-methoxybenzoyloxy)benzyl alcohol  
114480-35-2P, 2,5-Bis(4-ethoxybenzoyloxy)benzyl alcohol  
114480-36-3P, 2,5-Bis(4-butoxybenzoyloxy)benzyl alcohol  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with acryloyl chloride)

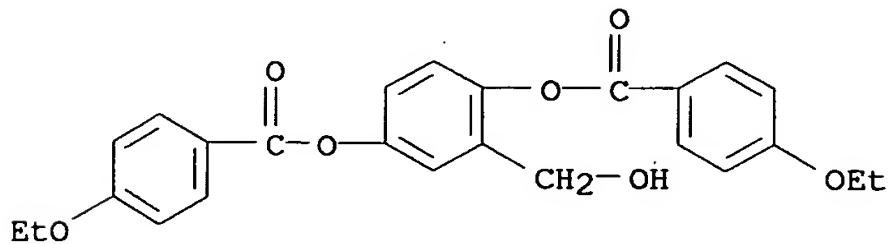
RN 105252-91-3 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



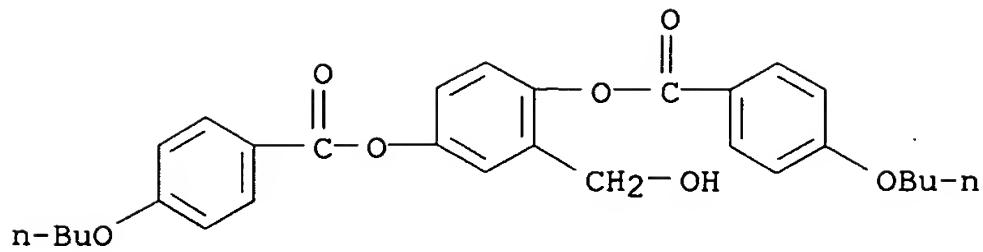
RN 114480-35-2 CAPLUS

CN Benzoic acid, 4-ethoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 114480-36-3 CAPLUS

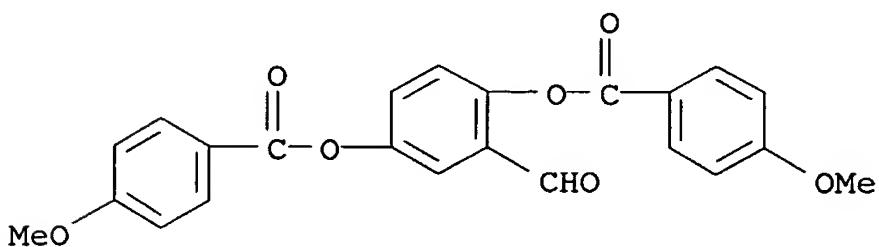
CN Benzoic acid, 4-butoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 105252-90-2P, 2,5-Bis(4-methoxybenzoyloxy)benzaldehyde  
114480-33-0P, 2,5-Bis(4-ethoxybenzoyloxy)benzaldehyde  
114480-34-1P, 2,5-Bis(4-butoxybenzoyloxy)benzaldehyde  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reduction of)

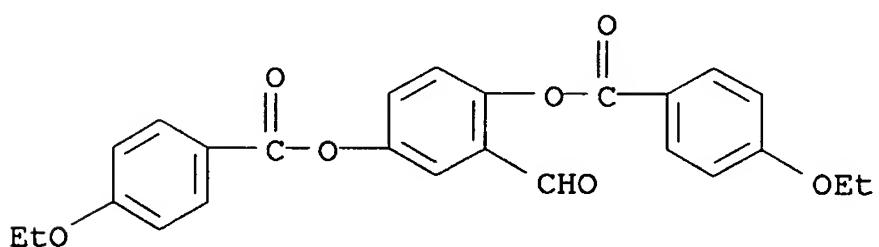
RN 105252-90-2 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 114480-33-0 CAPLUS

CN Benzoic acid, 4-ethoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 114480-34-1 CAPLUS

CN Benzoic acid, 4-butoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

